AUTO CALL

FOUNDATION FOR AMATEUR RADIO

FAR

FEBRUARY 1991

FCC Highlights ⊙ ARRL Report ⊙ VE Exam Schedule ⊙ Public Service Report
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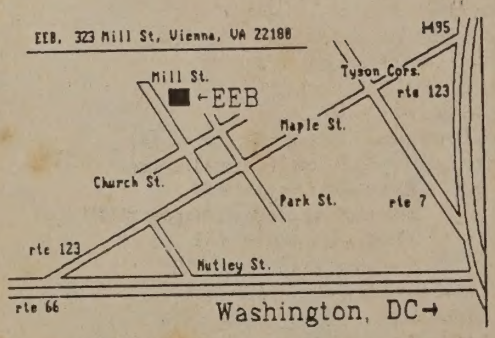

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EDITORIAL

President's Corner

By Phil Russo - N3GDD
President, Foundation for Amateur Radio

With the holidays behind us, and as we settle in for the long winter's nap, let us not forget from whence we came. At one time or another in our hobby we, and I mean all of us, were not as knowledgeable as we are now. Not everyone knew the etiquette of on air transmissions, or the latest up to date lingo, or were familiar with the capabilities of the various types of equipment. This occurred to me during a holiday visit with an old friend of my father's. These two guys started talking and within minutes had left me in the dust, mentally.

With news from my nephew in 1 land of his best Christmas present being his very own copy of "Tune into the World," the incident started me thinking about how we, one and all, treat newcomers to our hobby. Most folks will be very patient with a Novice or even a new Tech on 2 meters. But then there are some who have almost no tolerance for the slightest error by someone who is supposedly less knowledgeable. It appears to me that there are no perfect ham operators, I offer the doubters evidence of proof. If there is perfection in Amateur Radio then why are we always experimenting?

Life, itself, is a learning experience and to learn to live with imperfection is truly the proper and adult thing to do. If in fact you run into a truly obnoxious person, take them aside or arrange for an eyeball QSO and try your best to reason with them as to what the solution should be. Did anyone make this person feel welcome to begin with? Maybe someone never took the time to sit down and counsel with this person, or for that matter even took an interest in that person.

There is a certain amount of fellowship in Amateur circles, that's one of the things that attracted me in the first place. On the air confrontations as I see it accomplish nothing. And the boasting and accusations tend to shrink when people go face to face.

(Continued on page 8)

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Coming Events

1991

Feb 24	Vienna Winterfest (See Fyer on page 28)
Mar 3	York Springfest, York Pennsylvania
Mar 24 *	Timonium Hamfest
Apr 6 - 7	Greater Baltimore Hamboree & Computerfest (See Flyer on page 26)
Apr 6	Spring Banquet sponsored by FAR and local QCWA Chapters
Apr 21	Marconi Day
Apr 26-28	Dayton Hamvention
May 18 *	Roanoke Valley ARC Hamfest
May 17-19	ARRL Atlantic Division Convention & Rochester Hamfest
May 19	Wheeling, WV Hamfest/Computer Fair, Sponsored by Triple States
May 26	Memorial Day Hamfest, Howard County Fairgrounds
Jun 2 *	Manassas Hamfest
Jun 16 *	Frederick Hamfest
Jun 29 *	Bluefield WVA Hamfest
June 29 *	Jackson's Mill WVA ARRL State Convention
Jul 28	BRATS Maryland Hamfest
Aug 4 *	Winchester Hamfest, Berryville, VA
Sep 8 *	Gaithersburg Hamfest
Sep 22	ARRL Roanoke Division Convention, Virginia Beach, VA
Sep 31 *	Shelby, NC Hamfest
Oct 13 *	Howard County CARA Hamfest

* Dates marked with an asterisk (*) are NOT confirmed. The dates shown are best guesses based on the schedules of previous years. Hamfest sponsors are urged to advise Auto-Call as soon as 1991 dates have been established. Thanks to the SouthEastern Repeater Association *Repeater Journal* for much of the Hamfest date information above.

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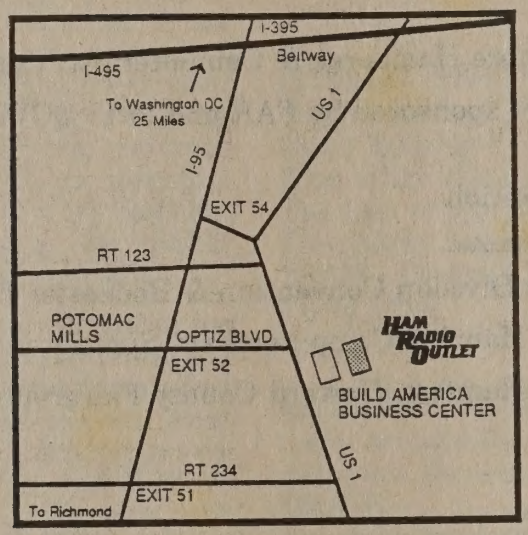

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FCC Highlights

by Bill Grenfell W4GF

The FCC "...has revised the examination requirement for the Technician Class Amateur Operator license ... by removing the requirement for proof of ability "...to send and receive texts in Morse code telegraphy. " After these revisions become effective, an examinee will not be required to prove that he or she can send and receive texts in Morse code telegraphy signals to qualify for a Technician Class Amateur operator license."

"The FCC noted that offering a codeless class of license that authorizes control operator privileges at stations which transmit exclusively above 30 MHz, provides an entry level opportunity to otherwise qualified persons who find telegraphy a barrier to pursuing the purposes of the Amateur service. "Therefore, the FCC has established the Technician Class as the codeless class of license. " This license includes all Amateur operator privileges above 30 MHz." The Commission also amended the rules to grandfather frequency privileges below 30 MHz to current Technician Class licensees." In addition, the Commission decided to retain the Novice Class operator license opportunity to persons who desire to pursue the purpose of the Amateur service and who can pass a telegraphy requirement in place of the more comprehensive written examination requirement for the codeless Technician Class operator license. (FCC Report No.DC-1777; Docket 90-55; 12/13/90). Regarding the privileges, ARRL President Larry Price observed that the FCC formula is likely to be less acceptable to many Amateurs than the League's. (ARRL NEWS RELEASE, 12/12/90). Noting that the ARRL Board was holding its regular meeting on January 18-19; "The timing looks good for a careful review of the Commission's action at that meeting." (Westlink Report 12/21).

On August 1, 1990, the FCC proposed exempting from the 13 and 20 words per minute (wpm) telegraphy examinations Amateur operator licensees who are incapable of passing those examinations due to severe handicaps. "Because of the international requirements, however, no exemptions would be granted from the 5 wpm telegraphy examination. "The rules adopted require a physician's certification and a release permitting disclosure to the FCC of medical information pertaining to the handicap. "The Commission said that the term "physician" would be limited to practitioners with full medical privileges, that is, doctors of osteopathy or doctors of medicine. " With respect to whether administering volunteer examiners (VEs) should administer examinations that they had not passed, the Commission said that any VE who is not competent to perform the VE functions should not administer examinations. (FCC Report NO. 1778; PR DOCKET 90-356)

The ARRL and the Radio Amateur Satellite Corp. (AMSAT), are registering concern over the fate of Amateur spectrum at the 1992 World Administrative Radio Conference (WARC-92). This conference of the ITU will be able to modify allocations in several key parts of the spectrum. In comments filed with FCC, ARRL supports the proposed 40 meter Amateur reallocation to 6900-7200 kHZ worldwide. The Amateur Service would have exclusive access to the 7000-7200 kHz segment, and primary access to 6900-7000 kHz with secondary access available to land mobile radio. (W5YI Report 12/15/90).

The FCC's Second Notice of Inquiry in WARC '92 proposed to internationally allocate 148-149 MHz on a secondary basis to low-Earth orbit (LEO) satellites. Amateurs pioneered LEO satellites and now several organizations have applied to FCC for LEO licenses)."...some engineers believe that the 140 MHz bands may turn out to be quite suitable for LEO use for both up and downlinks. Thus, changes to 420 MHz may not be needed in the end." (W5YI Report 12/15/90).

On Nov.16th, the ARRL and FCC lawyers argued the relocation of 220-222 Mhz to narrow band business interests in the U.S. Court of Appeals for the District of Columbia. On December 3rd, the Court of Appeals denied the League's Petition for Review of the FCC's decision to award the 220-222 MHz segment to land mobile users. The ARRL was to have seven days to request a re-hearing. "The explanatory memorandum attached to the judgment is informative, but of no precedence value." (W5YI Report, 12/15/90).

(See page 8 for Latest Calls Issued)

FCC Highlights - Continued

THE LATEST CALLS ISSUED FOR
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HAWAII CALL AREAS WERE:
AS OF 1 DEC 1990

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WN1M	KC1YL	N1GM	KA1WSU
AA2CN	KE2YH	N2LKZ	KB2LOI
WG3V	KD3UY	N3ISG	KA3YBS
AC4AY	KN4TI	---	KC4UJV
AA5WC	KI5LS	N5RTX	KB5OFU
AA6ZU	KK6TN	---	KC6PPF
AA7GV	KG7KW	N7PXO	KB7MBI
AA8CR	KF8KO	N8NCU	KB8LBL
WX9M	KF9AG	N9KHY	KB9FZ

Gf

President's Message - Continued

Remember the true test of one's knowledge is the ability to pass it on to another. I would like to take this opportunity to ask each and every one to reflect on times past. I think we all can find times when our conduct could have been more honorable. To acknowledge this and try to be more of a model would be a good New Years resolution.

With that said I'll take my leave, although some will say I lost it long ago, HI! HI!. SEE YOU AT WINTERFEST!

Phil N3GDD

The "Considerate Operator's Frequency Guide"

Frequencies that are generally recognized for certain modes or certain activities (all frequencies are in MHz):

160 Meters

1.800-1.830	CW, RTTY and other narrowband modes
1.830-1.840	CW, RTTY and other narrowband modes, intercontinental QSOs only
1.840-1.850	CW, SSB, SSTV and other wideband modes, intercontinental QSOs only
1.850-2.000	CW, phone, SSTV and other wideband modes

80 Meters

3.590	RTTY DX
3.610-3.630	RTTY
3.790-3.800	DX window
3.845	SSTV

40 Meters

7.040	RTTY DX
7.080-7.100	RTTY
7.171	SSTV

30 Meters

10.140-10.150	RTTY

20 Meters

14.070-14.099.5	RTTY
14.100	NCDXF beacons
14.230	SSTV

17 Meters

18.100-18.110	RTTY

15 Meters

21.070-21.100	RTTY
21.340	SSTV

12 Meters

24.920-24.930	RTTY

10 Meters

28.070-28.150	RTTY
28.190-28.225	Beacons
28.680	SSTV
29.300-29.510	Satellite downlinks
29.520-29.580	Repeater inputs
29.600	FM simplex
29.620-29.680	Repeater outputs

ARRL band plans for frequencies above 28.300 MHz are shown in the *ARRL Repeater Directory* and *FCC Rule Book*. For suggested packet frequencies, see *QST*, Sep 1987, p 54 and Mar 1988, p 51.

QST Jan '91

American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

DATE SET FOR TECHNICIAN TESTING CHANGES. On Dec. 13 the Federal Communications Commission issued Reports and Orders in the matters of a code-free Amateur license and of relaxed Morse code testing for the disabled. February QST will carry the complete text of their R&O on the code-free Technician license and a detailed report on new CW testing procedures for the disabled. Highlights follow:

The effective date for code-free Technician license exams is February 14, and details are mostly as described in the last Letter. The R&O does provide insight into the Commission's thinking on the matter. They begin by noting that 70 percent of comments received favored "at least an entry level codeless license." Comments from organizations ranging from the ARRL to the Quarter Century Wireless Association also are invoked, and those of the QCWA were apparently given heavy consideration.

Comments noted by the FCC in opposition to a code-free license were that CW is a superior means of communication that should be retained for all license classes, and that tradition should be maintained. FCC did not fully agree, saying "telegraphy skill is not so essential to proper operation of a station that transmits exclusively above 30 MHz such as to justify turning away otherwise qualified persons who do not possess the skill."

As for specific licensing requirements, the FCC decided not to accept a recommendation that five questions on operating practice be added to the existing 55-question Technician written exam (30 questions from Element 2 and 25 from Element 3A).

Both the ARRL and the National Conference of Volunteer Examiner Coordinators (NCVEC) had recommended that the Commission in effect create a sixth license class, by recording the subsequent passing of a 5-WPM CW test by code-free licensees. Instead, the upgrade to Technician-plus-CW will not involve the issuance of a new license, as described in the previous Letter.

Instructors already are gearing up for an expected influx of hams-to-be resulting from the announcement. ARRL's Educational Activities Department is preparing a new class instructor guide for this new entry point into Amateur Radio. EAD seeks ideas from instructors on content of the new guide, as well as suggestions on how to "mainstream" the new Technicians into our ranks (as well as convincing them of the importance of League membership).

Assuming the code-free Technician license becomes a reality on February 14, Amateurs who passed Element 2 and/or Element 3A after February 14, 1990 may now qualify for (or have partial credit toward) the new license. (Element credit is good only for 365 days from the examination date).

And current Novices and Technicians are advised to retain their license (or a copy) to document that they have passed the 5 WPM Morse code examination, for future upgrades.

ARRL Board members will be reviewing the Report and Order--and member reactions--between now and the Board meeting January 18-19, where there will be an opportunity to consider whether partial reconsideration should be sought on the issues on which the Commission departed from the League's recommendations.

CW TESTING OF THE DISABLED. Beginning as early as February 14 there are procedures in the FCC Rules for people with certain disabilities to follow who wish to be excused from 13- and 20-wpm Morse code examinations for Amateur Radio licenses. In a Report and Order adopted December 13, 1990, the FCC amended its rules "to exempt from the higher speed Morse code telegraphy examinations Amateur operator licensees who, because of severe handicaps, are incapable of passing those examinations."

The exemptions will not apply to the 5-wpm tests, since a demonstration of Morse ability is required for operation below 30 MHz.

The primary concern voiced by the ARRL and others was that such exemptions could compromise the entire volunteer examiner program,

by putting undue burdens on VEs to make judgements about an applicant's disabilities as well as in asking non-Amateur medical professionals to assess applicants.

According to the FCC, the most objections were to a proposed list of disabilities, a list drawn up by the government to indicate a person's "employability." Commenter Alan L. Braun, M.D., NSØB, told the FCC "many persons who have handicaps that prevent them from working do not have handicaps that prevent them from taking a telegraphy examination."

As a result, the FCC will "rely on the integrity and the judgement of the physician who signs the certification to establish, after consulting with the patient, that the person is severely handicapped and because of the disability is unable to pass the telegraphy examination.

"We expect both the examinee and the physician to be honest" the FCC said.

Further, the Commission will "develop a briefing paper for physicians that describes the nature of the Morse code examinations."

"Physicians" will be defined as doctors of medicine (M.D.) and doctors of osteopathy (D.O.), only.

And, at the ARRL's urging, the FCC also will require that an applicant for exemption sign a release, permitting disclosure to the FCC of medical information pertaining to the disability. Revised Form 610s, which will include a physician's certification form, will "contain a warning regarding the penalties for making willful false statements to the Commission in violation of 18 U.S.C 1001."

The FCC also acknowledged comments concerning "dilution of the Amateur service" and "demeaning" the handicapped, saying in the first case that Morse proficiency had not in the past proven to be a "filter" for the service and, in the second, that all handicapped persons still would be able to choose to take the examinations even if they met the requirements for an exemption.

In the matter of whether a disabled person will be able to give a volunteer examination for an element from which he was exempted, the R&O left to VE coordinators to certify disabled VEs, saying that a disabled licensee could, in some cases, administer exam elements they themselves had not taken.

The Commission used the following example: an Amateur Extra class licensee, acting as a volunteer examiner and having been exempted himself from the 20-WPM examination, still would be capable of administering a receiving exam to another applicant, by the use of taped CW and a written copy of the text sent.

This amendment of the Commission's rules becomes effective Feb 14, 1991.

COMMENTS BACK 40-METER PROPOSAL. On Dec 3 the League filed its comments on the Second Notice of Inquiry in General Docket 89-554, the WARC-92 preparatory proceeding. Supported was a proposal to provide a 300-kHz worldwide Amateur allocation, free of broadcasting interference, at 7 MHz. A realignment of the 41-meter broadcasting band to provide a broadcasting band in Region 2 would make this possible. Feedback from League members has largely supported shifting the current Amateur 40-meter band downward by 100 kHz, in exchange for eliminating the present geographical sharing arrangement with broadcasting.

At its meeting November 27 the Industry Advisory Committee agreed to recommend this 7-MHz realignment, adding to a growing consensus on this point among the key players in U.S. WARC-92 preparations.

On 2 meters, the League expressed concern about possible interference to the crowded band should an LEO satellite service be implemented in the adjacent band of 148.0-149.9 MHz, but did not oppose the proposed allocation.

The League did oppose a proposal to reallocate 420421 MHz for low earth orbit (LEO) satellites, instead supporting an initiative of WARC Informal Working Group 2, which seeks ways of accommodating this new use without adversely affecting existing services.

Finally, the League opposed any reallocation of 2390-2450 MHz that would deny the Amateur Service, and particularly the Amateur-Satellite Service, access to this important band. Recent good news on this front is that satellite broadcasting interests have studied the issue and have concluded that, for the next 15 years or so, satellite sound broadcasting is not feasible above 2.0 GHz; the power requirements at the satellite end are too great. But other interests are still eyeing the band.

MONTSERRAT AMATEUR KNIGHTED FOR HURRICANE HUGO EFFORTS. Errol "Bobbie" Martin, VP2MO, has received the British Empire Award for public service. Martin, known to Amateurs around the world, worked tirelessly during and after Hurricane Hugo struck Montserrat, his home, in September, 1988. He provided the only communications into and out of the island for several days following the storm, which caused an estimated 100 million dollars (U.S.) damage and left a quarter of the island's 12,000 population homeless.

The BEM award, formerly the Order of the British Empire, is made to both civilian and military persons for distinguished service. Martin was the only Montserratian to receive the award for service resulting from Hugo. It bestows an honorary knighthood on the recipient, who may then be referred to as "Sir."

But VP2MO would prefer you just call him Bobbie. "It's an honor,"
he said, "but it doesn't put food on the table."

BRIEFS. * A federal law concerning FCC responsibility in time of war or national emergency has been changed. As of Dec. 11, 1990, Amateur Radio stations no longer will automatically be shut down in such cases. Now, in either event, all Federal licensees will be obliged to observe whatever orders and instructions the Commission issues in the interests of national security and spectrum use.

* If you're renting or borrowing space on a commercial tower, be advised that the FCC may be interested in you. According to the Dec. 17 issue of Broadcasting magazine, a two-day inspection of such towers by the FCC in November found 16 per cent (160 out of 1,031) "in apparent violation of safety rules governing their painting and lighting." Each licensee using tower space is separately responsible for lighting and painting, said Richard Smith, chief of the FCC Field Operations Bureau. The Commission has begun tentatively levying fines (mostly $2,000) against each user of towers it found in violation, according to Broadcasting.

* On Dec. 13 and 14 the FCC identified 141 radio operators illegally transmitting on frequencies adjacent to the Citizens Band and the 10 meter Amateur band. The two-day effort, involving personnel from all 35 Commission field offices, resulted in fines totally $147,000.

The unlicensed operations were identified as originating from all 50 states plus the District of Columbia and Puerto Rico. The most active states, according to the FCC, were Florida, California, Michigan, Texas, and Arizona. The equipment in use typically was modified Citizens Band or Amateur transceivers with linear power amplifiers.

Operators included members of organized groups such as World Wide Sideband, Satellite, Alfa Tango, Whiskey Tango, Whiskey Jack, Unidad, Truckers, Eagles International, and Old Timers.

* In response to a request from U.S. Army Brigadier General Wesley B. Taylor, Jr. community commander of the Nuernberg (Germany) Military Community, ARRL has shipped two HF radios for Military Affiliate Radio System (MARS) use by the First Armored Division in Saudi Arabia. "Our present MARS equipment is insufficient for a deployment of this kind," Taylor said, "and we are desperately in need of additional equipment."

The rigs, a Kenwood TS-140S and an ICOM IC-735, were donated in September, 1989, by the manufacturers, for use in Puerto Rico following Hurricane Hugo.

MARS frequencies being used for traffic from the Middle East can be heard on 20.994, 19.532, 14.650, and 14.665 MHz.

MCI Communications Corporation has announced they are providing equipment "to establish 15 new MARS stations" in Saudi Arabia. Since September, MCI has been donating free emergency long-distance telephone service to U.S. military troops in Saudi Arabia through the American Red Cross.

W1AW has returned to 160 meters with code practice and bulletins, on 1.818 MHz (CW) and 1.890 MHz (SSB). And, since Jan. 2, the Headquarters station has changed CW frequencies on 10 and 15 meters, to 28.0675 and 21.0675 MHz, to avoid interference to packet operators.

* Nearly one hundred countries have reciprocal Amateur Radio operating agreements with the United States, according to the latest list issued by the FCC (on Dec. 7). HQ has the necessary forms to be used in applying to these and certain other countries for operating permission, yours for an SASE.

¤ ¤ ¤

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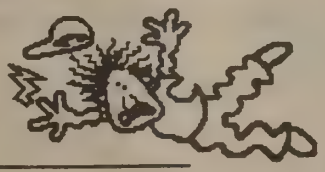

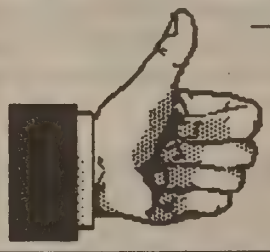

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Training Classes

Robert Armstrong, WA4SQL
44 South French Street, Alexandria, VA 22304
(703) 751-2294

Upgrade Classes, Alexandria, VA, starting 28 January. Sponsored by Mt. Vernon ARC and Alexandria Radio Club. The class will present an upgrade license course for General through Extra class license. High speed CW will be emphasized. Classes will be held in Alexandria on Monday evenings from 7:30 - 9:30 and will continue for about 16 week. There is no charge for the class, however students will be expected to supply their own ARRL license manual. For information and location, contact John Forrest - WZ4A (703) 971-3905 or Harry Jones - N4CWP (703) 204-1781.

Novice Classes, Severn, Maryland, Probably starting in January Sponsored by Maryland Mobileers. For information call Bill Dillon, WA3SCW (@ WB3V in Packet)

Novice Classes, starting 2 February, Davidsonville, MD. Sponsored by Anne Arundel Radio Club. Classes will be held Saturdays from 9:00 a.m. to Noon and will continue for 12 weeks. Davidsonville Family Recreation Center (about 6 miles SW of Annapolis). For information and registration call Holly Bevin - N3BMB at (301) 923-0229 (Crownsville) or Tony Young - WA3YLO at (301) 262-1917 (Bowie).

General/Tech Classes, Laurel, Maryland, starting February 4. Sponsored by Laurel Amateur Radio Club. Classes will be held at 7:00 p.m. every Monday a Pallotti High School at Montgomery and 8th streets. A VE examination will be held at the end of the ten week course. There is no cost for the class but pre-registration is requested. For information call John - W3GFS at (301) 490-5286 or Pud - W3DQI at (301) 498-6293.

Novice & "No Code Tech" Classes, Gaithersburg, Maryland, starting February 5. Sponsored by the Montgomery Amateur Radio Club. Classes will be held at the Gaithersburg High School, 314 S Frederick Avenue, Room H-211 from 7:00 to 9:00 p.m. each Tuesday and Thursday evening for 7 weeks. Licensing session will be held on 21 March. There is no charge for the class; however, students will require a textbook costing about $20. Registration is required. For further information call (301) 251-8721 (for recorder) or contact Ken Nichols evenings at (301) 977-5405

Novice Training Classes, Baltimore, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Friday evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free;
Materials (which you can keep) consist of a book and tape and cost $19.90. For registration or information, contact Jeff Salamon, N3FHT at (301) 484-1362

Novice and Upgrade Classes, Lexington Park, MD. Sponsored by St. Mary's County Amateur Radio Assn. For further information contact WD8OYG or call (301) 862-2214.

See next page for general information on training contacts at various clubs

Please keep the Training Chairman advised of any changes
in the names and telephone numbers of the contacts for club training programs.
Please list training programs far enough in advance for effective publicity.

Atlantic Division Awards Sought

Nominations are now being sought for the 1991 awards to be presented at the ARRL Atlantic Division Convention.

"Amateur of the Year" nominees should be outstanding all-around Amateurs from the Atlantic Division with a strong record of service to the Amateur community. An award for lifetime service to Amateur Radio, the "Grand Ole Ham," is open to Atlantic Division OMs and YLs who have been licensed at least 30 years or are at least 50 years of age. New for 1991 is an Atlantic Division "Technical Achievement" award that may be presented to an individual or to a group.

Complete information on the awards and nomination procedures is available from Richard Goslee, K2VCZ, 24 Elaine Drive, Rochester, NY 14623. The deadline for nominations is April 10.

The Atlantic Division Convention is held in association with the Rochester, New York Hamfest.

Submitted by Kay Craigie, KC3LM
Vice Director, Atlantic Division

Training Program - Continued

GENERAL INFORMATION

Club	Contact
Alexandria Radio Club	Harry Jones - N4CWP (703) 204-1781
Anne Arundel	Tony Young - WA3YLO (301) 262-1917
Antietam Radio Assn.	Mike Vaia - WB8VBW (301) 797-1573
Arlington ARC	Fred Bardsley - WD4DHW (703) 533-0372
Baltimore ARC	Phone 1-800-HAM FEST - VB
BRATS	Jeff Salamon - N3FHT (301) 484-1362
Chaverim, Inc.	Bob Teitel - W3IDT (301) 654-3484
Fauquier ARC	Bill Mills - KC5PF (703) 937-4090 (H), 818-3955 (O)
Frederick ARC	Steve Bauman - W3FOA (301) 662-4552
Laurel ARC	John Albertine - W3GFX (301) 490-5286
MADRAS	Larry Ziecheck - N3GKZ (301) 530-8646
Maryland Mobileers	Bill Dillon - WA3SCW @ WB3V in Packet
Montgomery ARC	Ken Nichols - KA3KGL (301) 977-5405
Mount Vernon ARC	John Forrest - WZ4A (703) 971-3905
NASA/Goddard ARC	Vikki Gigante -KA3PVS (301) 249-2609
Pentagon ARC	David Boyd - K9MX (202) 697-0630
Rock Creek ARA	Walt Ramsey - AK3B (301) 949-3954
St. Mary's County ARA	Dwayne Kincid - WD8OYG (301) 862-2214
Shenandoah Valley ARC	Guy Black - W4PSJ (703) 722-4952
Southern Maryland ARC	Vic Curtis - WA3YUV (301) 888-1388
Sterling Park	Art Nevins - WA4NTP (703) 437-9382
Tri County ARC	Al Sines - WA3QGA, Box 710, College Park 20740
Vienna Wireless	Paul Wilkins - AB4CY (703) 560-2779
Washington Adventists	Henry Miller - W3BWN (301) 474-7376
Woodbridge Wireless	Loyd Davis - K8EI (703) 360-0248

FOUNDATION FOR AMATEUR RADIO

Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS
1991

EXAMS

IMPORTANT NOTE: If you now have a Technician class license which was acquired prior to March 21, 1987, have a copy of it available when you decide to upgrade.

Jan 27 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration
Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)

Feb 2 Middletown VE Teaam (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241

Feb 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Hampton Roads Radio Association (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611

Mar 2 South Peninsula ARC (ARRL VEC)
Contact: Ed Brummer, W4RTZ (804) 898-8031

Mar 9 PROS (Salisbury, MD) (Laurel VEC) Walk-in
Contact: Dave Bridge, KB3MT (301) 436-8360

Mar 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Apr 6 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC)
Contact: Andrew Swanson, WJ4X (804) 253-2811

Apr 20 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Apr 28 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration
Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)

May 4 Portsmouth ARC (Portsmouth, VA) (ARRL VEC)
Contact: Art Thiemens, AA4AT (804) 484-2857

Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241

(Continued)

Volunteer Examiner Cooperative - Continued

May 18	Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
	Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC) Contact: Bill Runyon, N4BDH (804) 487-8611
Jun 1	Virginia Beach ARC (Virginia Beach, VA) (ARRL VEC) Contact: Ed Robison, WD4ROY (804) 468-0866
Jun 8	PROS (Salisbury, MD) (Laurel VEC) Walk-in Contact: Dave Bridge, KB3MT (301) 436-8360
Jun 15	Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
Jul 13	Chesapeake DX Assn. (Chesapeake, VA) (W5YI VEC) Contact: Bill Verebely, KC4YX (804) 424-4764
Jul 20	Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
Jul 28	Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)
Aug 3	Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins Contact: Walt Quitter, NC4B (703) 869-5241

NOTE: All examinations require that you submit:
Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.
Check for appropriate examination fee.
Fees of individual VEC may vary.
ARRL Exam fee is $5.25
W5YI Exam fee is $5.25
Laurel Exams are still free.
Mountain VEC Novice Exams free
All other Mountain VEC Exams $2.00

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

While most examinations are offered on a walk-in basis,
pre-registration is desirable in all cases.

Certificates of successful completion for theory tests
are not always accepted. Check with the contact person
for the examination you wish to take.

This schedule of examinations appears each month in Auto-Call Magazine
Sponsored by the Foundation for Amateur Radio

DX DX DX

John Kanode, N4MM

WELCOME to the new AUTO-CALL DX column. The plan is to make this a regular monthly column for Auto-call. It will consist of news about upcoming DXpeditions, info on new DX awards, info on possible new countries for the DXCC list and other DX tidbits.

The DXAC has one possible new country under consideration, the Penguin Islands. This group of islands are off the coast of Namibia(South West Africa) but belong to the Republic of South Africa. There have been two operations from these islands in 1990. If they become a new addition to the DXCC list, I am sure more will follow.

Upcoming DXpeditions – Navassa, KP1, late March or April using call of W5IJU/KP1. Operation to include CQ WPX SSB Contest. Malyj Vysotskij Island – Spring of 1991 with UA3WA and OH2BU.

New DX awards – The complete rules for the WAZ program appeared in November CQ Magazine. Several new awards were added to the program. A new CW WAZ was announced. Contacts for this award must be after January 1, 1991. Also single band WAZ's were announced for 30, 17 and 12 meters. Contacts for these awards must have been made after each station involved in the contact had permission from its licensing authority to operate on these bands. For complete rules, see November 1990 CQ Magazine.

In January, the ARRL Board of Directors will consider the adoption of a system for field checking of QSL cards for the initial application for DXCC awards.

Interested in joining a DX club? The National Capitol DX Association has meetings every other month in the MD-VA metro area. Call KK4HD, Paul at 703-573-5647 for location and dates of meetings.

Six meter DXers-- The band has been open to Europe and Africa in the mornings. Lots of UK stations plus OZ, ON, DL, 6W, and LA. This hopefully will continue into early February.

How much does power get you?

How much do you really gain by increasing the power of your transmitter?
And how much more could you gain by spending your money on improving you antenna system?

In order to make a change in your signal strength that can be detected by the human ear, you will have to change the power by 3dB. And in order to make a 3 db increase, you will have to *double* your power (no matter where you start.) In other words, it won't really do you much good to increase your power from 50 watts to 80 watts. The human ear can't tell the difference until you get up to 100 watts.

On the other hand, if you install a 6dB antenna instead of the basic quarter-wave you have been using, the received signal would be the same as if you had raised your output power to 200 Watts (and kept using the quarter-wave antenna). If you have a crummy old piece of coax cable feeding your antenna and the cable has a 3dB loss, you can double your signal just by replacing that cable.

Why do we put so much emphasis on linear amplifiers costing maybe $500 to $1000 when more can be accomplished with a few bucks and a little bit of effort to improve the antenna system and the ground system of our stations?

Inspired by article by Herbert Lipson, W8FBH; Midland ARC via Worldradio 1/91

Looking for a Few Good Hams

The American National Red Cross is in need of a few volunteers to assist with the daily operations of the Disaster Services radio program.

Duties would include offering expert advice to chapters regarding radio communications (at least ¼ of the inquiries will be from radio Amateurs), maintaining the American Red Cross 47.42 MHz radio system and supporting the 775 chapters licensed, assisting the evaluation of new technologies, and supporting the daily operation of the program. Deployment to large-scale disasters, both domestically and internationally, as a telecommunications expert is also a distinct possibility.

In return, the American Red Cross will provide reimbursement for mileage and parking, adequate workspace, and the resources allowing volunteers to meet their potential. Also, they should expect to represent American Red Cross National Headquarters at telecommunications and Amateur Radio conventions and expositions throughout the country.

Requirements include a thorough knowledge of Amateur Radio, membership in the ARRL, more than a cursory knowledge of Land Mobile, satellite, cellular telephone, and computer communications, and the aptitude to serve Red Cross chapters and interested parties in a correct, informed, and timely manner. Also, a willingness to learn is paramount.

American Red Cross National Headquarters is presently at 18th and D Streets, N.W., Washington, DC. Within 18 months the address should change to the former AAA building, located at the intersection of Route 50 and I-495 in Fairfax County, Virginia. The Red Cross purchased that building in September of this year. The Red Cross relies heavily on Amateur Radio operations in times of disaster and has more than $15,000 of Amateur Radio equipment on-hand to be installed at the new location.

Volunteers would report directly to Michael R. Riley, KX1B, who is responsible for the American Red Cross Disaster Services Radio System.

Radio volunteers are needed 7½ hours a day, Monday through Friday. A minimum time commitment of 2 days weekly is required by volunteers.

If interested, send your resume to: Michael R. Riley; Disaster Services; American Red Cross NHQ; 18th and D Streets, NW; Washington, DC 20006. Resumes should be received by February 15. NO telephone calls will be accepted.

Only in Amateur Radio

Only in Amateur Radio can you ...
... talk to kings as you would your next door neighbor.
... talk to astronauts and cosmonaut as they travel through space.
... help bring relief to a country in the midst of a disaster.
... have nearly a million instant friends.
... help bring the dream of world peace closer.
All without leaving home!

(Torence Jones, NZ8C; Allen County Amateur Radio Technical Society, Ft. Wayne, Indiana
Via WorldRadio 1/91

SRAM–026

[Soviet Radio Amateur Movement]
Edited by Dexter Anderson, W4KM

[Following are summary translations from the Soviet Amateur Press]
[Comments in square brackets are by translator]

[from the October 1990 issue of RADIO magazine]

"WILL THE 'HUNT' BE SUCCESSFUL?"

by Yelena [Helen] Vsevolodovna Turubara
Senior Editor, RADIO magazine

The situation in radiosport is far from satisfactory, even in the prestigeous "fox-hunting" form of sport, notwithstanding the fact that until recently Soviet "foxhunters" won practically all world championships. The alarm bell went off at the 1988 world championship in Switzerland, at which our "hunters" lost in the men's and youth events.

Last year's traditional (but, unfortunately, the last) "For Friendship and Brotherhood" competitions, which took place in Pyongyang, did not bring joy either. Although only the USSR, Czechoslovakia, and [North] Korea took part, and although our team was fairly strong, we lost to the Koreans in all categories.

Various reasons are given for the alarming situation in sport radiodirectionfinding: A drop in mass participation, a formalistic attitude toward forming teams at the republic level, lack of equipment, and a shortage of qualified trainers. Also mentioned is sport radiodirectionfinding's loss of prestige, caused by the cancellation of the international competitions between "foxhunters" of the East European countries (in which North Korean sportsmen also participated).

All that's true, as is the fact that absolutely untrained teams come to the Championship of the Union from several republics.

This causes legitimate indignation on the part of radiosport officials, but a year goes by, the same story is repeated, and nothing changes "in the Kingdom of Denmark."

I assert that sport radiodirectionfinding cannot today be a mass form of sport in all areas of our country. Enough equipment doesn't exist and what does exist is not, as a rule, of very good quality. Then, for training, a forest is necessary. And transportation to get to this forest.

Let's speak of the proportion of radiodirectionfinding that has in most respects actually become professional (you can't hide the fact that many members and alternate members of the USSR mixed team can't be called amateurs). Do many young "fox-hunting" enthusiasts have a chance of becoming professionals? Only a few. Today "fox-hunting" can only support a small group of sportsmen, partly through army sport clubs.

This is one of the reasons why for many years we've seen the same names in the top lines of the table. Most of our champions are in Odintsovo, Moskovskaya Oblast'. Not because Odintsovo has a special school for foxhunters, but simply because the military created facilities that permitted inviting first-rate sportsmen from around the country.

(Continued)

SRAM–026 - Continued

Today only the Stavropol' and Penza children's-youths' schools have a decent facilities for training youth teams. The principal national team can only conduct meets twice a year. This isn't enough for quality training of international-class sportsmen (our main rivals today -- "foxhunters" from China and the Korean People's Democratic Republic -- train year around, and their performance is improving noticeably. But the Central Committee of DOSAAF USSR doesn't have enough money for the Soviet mixed team.

Another problem involves team competitions. Every year "foxhunter" teams gather from various areas of our vast country for the Championship of the USSR. No one seems concerned by the fact that in the republics of Central Asia, the nearest forest is thousands of kilometers away, that there's nowhere to train, that teams are assembled at the last minute, and that they receive a bunch of zero scores. And tens or hundreds of thousands of rubles are spent on travel and equipment!

Let us not close our eyes to the fact that today in the world the winners are not amateurs but professionals. "Foxhunters" are no exception. Our prominent sportsmen are all professionals. To repeat, enough of being shamefully silent about this fact.

Under glasnost' and perestroyka, many sportsmen have been given the opportunity to provide for their future. But this is not true for DOSAAF sportsmen, including "foxhunters." What will V. Chistyakov, Ch. Guliyev, and S. Koshkina do when they no longer perform the sports to which they've given their best years, efforts, and health?

What can I say, with today's inflation you can't really live on a grant from the Central Radio Club of the USSR. The possibility of foreign trips used to be a tempting "carrot", but now practically all that's left is the World Championship, scheduled every two years.

True, some bright spots have begun to appear in the form of commercial competitions, the first of which were held fairly successfully at L'vov last year. We should allow professionals to earn their livelihoods as professionals.

Radiodirectionfinding is getting more and more popular in the West. Our sport leaders need to think seriously about initiating friendly bilateral or open multilateral trips with Western teams. International meetings would provide an additional stimulus. We shouldn't wait until someone, say in Eastern Europe, proposes reviving the "For Friendship and Brotherhood" sport radiodirectionfinding meets.

"UNJOYOUS ANNIVERSARY"

by Aleksandr Ivanovich Gusev, UA3AVG
Scientific Editor, RADIO magazine

This year marks the tenth anniversary of the Telegraph Shortwave Radiocommunication On-site/Off-site Competitions.

Only 13 teams came to the first championship in Aleksandrov in 1986. The same number came to Klaipeda the following year. But only 10 teams came to Penza in 1988 and 9 came to Tokmak in 1989. This year, only 7 teams competed at Lugansk, from Byelorussia, Georgia, Kazakhstan, Russia, the Ukraine, Moscow, and Leningrad (city and oblast').

Tragedy struck the principal candidates for the RSFSR [Russian] team -- the team from Penza. On their way to the Russian Championship [probably an elimination event held earlier.] , the vehicle in which most of the team members were traveling had an accident. Oleg Kolotilin, RA4FB, a judge at all previous on-site/off-site competitions, was killed (a moment of silence was observed for him at the USSR Championship) and the others in the vehicle were seriously injured.

The reasons for participation by only seven teams included reduced DOSAAF budgetary support. Not least of all, the political situation in the country played a rôle: The conflict on the border between Azerbaydzhan and Armenia, the tense situation in Moldavia and Lithuania. Teams from these republics came to previous championships.

Most shortwavers favor opening the championship to foreign sportsmen, not only to off-site but also to on-site participants.

Another possibility would be to tie the competitions to international shortwave Field Day. That way, the on-site participants wouldn't get bored as they do now at the end of the competitions, and the rate will rise from the present 8 to 10 contacts per half hour at the end of the competitions.

Several-times national champion G. Rumyantsev, UA1DZ, is working on rules for the next competitions, taking into account experience gained from the Goodwill Games at Seattle and the wishes of shortwavers. [TRANSLATOR'S NOTE: A parenthetical comment by Boris Stepanov, UW3AX, in the 10–16 December 1990 issue of the newspaper *Sovetskiy Patriot*, suggests that UA1DZ may have become a Silent Key.]

"THE FIRST PANCAKE ISN'T ALWAYS LUMPY"

by A. Grekov

The first All-Union Shortwave QRP Competitions have taken place at Izhevsk. The leading four participants will automatically be part of the mixed team of the USSR, which will go to Bulgaria in the autumn for the international competitions. Those placing fifth and sixth will go as alternates.

Aleksandr Tint, UV3CX, won in the men's category, followed by I. Korol'kov, UA4FER, A. Korpachev, RW9WR, I. Markov, UA4WA, A. Orlov, RW4WR, and M. Sagitov, UA1WAM. No winner was named in the women's category, since only three women appeared for the competitions.

The judges' collegium, headed by A. Okhotniko, all-Union-category judge, coped excellently with its duties.

It is to be hoped that the competitions at Izhevsk become traditional. [i.e., a regular event.]

"CQ-U"

DIPLOMAS [CERTIFICATES]

The Chernovitsy Combined Aviation Detachment [Chernovitskiy ob"yedinennyy aviaotryad] has established the "Take-off" ["Vzlet"] diploma, for which 50 points are required based on contacts with Soviet amateurs. A contact with collective station UB4YWT is worth 20 points, with RB5YX, UB5YAW, UB5YBC, or UB5YCG 10 points each, and with other radioamateur-aviators [i.e. amateurs who are pilots] 5 points each. Those holding the "Soviet Aviation and Cosmonautics" diploma need only one QSO with UB4YWT, RB5YX, UB5YAW, UB5YBC, or UB5YCG. Contacts count if made on or after 1 January 1985 by any mode of emission. A postal money order for one ruble for the diploma should be sent to Diploma Commission, P. O. Box 4, 274001 CHERNOVTSY; add 30 kopecks in stamps if the diploma is to be sent to a home address. Observers [SWLs] are eligible for the diploma under analogous conditions. [TRANSLATOR'S NOTE: This item is obviously written for Soviet Amateurs; whether the certificate would be sent to this address forwarding, say, a couiple of "green stamps" is unknown.]

¤ ¤ ¤

The Rest of the Story

Do you remember those pictures of the children playing "Daddy" at his Amateur station? Well, here is one of Debbie Parsons, taken back in the mid-sixties by her dad, Bill Parsons - W4GPR.

Debbie grew into a charming young lady, married Kevin Rogers and followed him into the U.S. Air Force. She enrolled in the 1988 Anne Arundel Radio Club Novice class and passed her exams, then upgraded to General. Kevin got his Tech, N3GYD, in 1989. Debbie became the Anne Arundel Radio Club secretary in 1990.

The next picture shows Debbie as she looks today.

She now has her own mike and her own station, KA3TDD down in Florida. She and Kevin left the Air Force and moved to Plant City, Florida, where Debbie is now continuing her interrupted college education. She is planning to arrange skeds to keep in touch with her many ham friends in the Washington area. So keep an ear out for KA3TDD.

You can bet her dad is just as proud of Debbie today as he was when he took that other picture!

Debbie Parsons Rogers - KA3TDD

Subscription Prorating

The subscription rate for Auto-Call went up to $8.00 the first of the year. Renewals prior to that time were accepted at the old $6.00 rate for a period not to extend beyond December of 1992. A few exceeded that cut-off limit. In that case the money is being pro-rated for the period beyond 1992. In other words, they will get full credit through 1992 but only 3/4 credit ($6/$8) for the period beyond January 1 1993. Check your mailing label to confirm your expiration date.

Sample copies are still provided at $1.00 for a current issue with the $1.00 applied to a subsequent subscription. If you order a sample copy and then decide to subscribe, send a check for $7.00 and the mailing label from your sample copy. You will get another 11 issues.

PUBLIC SERVICE REPORT

Hank Black - N3ESR
(301) 340-8595

Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 149.09 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month.

Deadline for receipt of material is the fourth of the month.

SKYWARN ACTIVATED FOR DECEMBER WINTER STORM

Skywarn was activated by the National Weather Service at 6:00 p.m. on December 27, 1990. The net remained in operation until approximately 11:15 p.m. that night. The National Weather Service was very pleased and impressed with the reports they received via Amateur Radio.

One of the staff meteorologists stated that it was the largest quantity and most detailed information that they had received. I would like to add my own thanks to those who made my first effort as ARES SKYWARN Coordinator an overwhelming success. The National Weather Service provided the Ham Radio reports to the local news media which were seen 15 minutes later on "The Weather Channel" on cable TV.

Thanks were received by NWS from the local TV stations. It is clear that the information provided on snow depth, intensity, and temperature, as well as traffic conditions, was valuable and was passed to the community at large. Clearly this effort was a successful public service activity!

Submitted by Chuck Rexroad, N4HCP,
ARES SKYWARN Coordinator.

MONTGOMERY COUNTY ETS and RACES ACTIVATED FOR STORM

Early activation of the Montgomery County Emergency Transportation Service (ETS) was called by Director Fran Granados, Montgomery County Fire/Rescue Services, around 5:30 p.m. on December 27, 1990. Poor driving conditions and the slow progress of traffic on the county's roads brought about an early call to Emergency Management officials by Director Granados.

Montgomery County RACES was put on notice to activate a short time later. By 6:05 p.m. RACES was establishing a net on 146.46 MHz according to established procedures. However, severe interference from a commercial pager service made reception very difficulty at the Communications Room of the Disaster Operations Center.

While Hank Black, N3ESR, Deputy Radio Officer, and Rita Magee, KA3WHT, Emergency Management Program Specialist, attempted to resolve the problem, John Creel, WB3GXW, Deputy Radio Officer, took over as alternate net control at his home location. At 6:15 p.m., it was decided to move operations to the NIHRAC repeater on 145.29 MHz.

Once operations shifted over to the NIHRAC repeater, net control was re-established at the Disaster Operations Center. RACES members began providing weather and road reports as they attempted to get home during the evening rush hour.

The ETS program is dispatched by Montgomery County RACES using RACES radio operators and ETS volunteer drivers. Each ETS driver has a RACES radio operator assigned to his or her vehicle and act as a team. The purpose of ETS is to provide 4-wheel drive transportation service in the event that inclement weather or any other emergency prevents easy passage on roads within the county.

(Continued)

Public Service Report - Continued

During the initial activation of RACES, the National Weather Service set off the Emergency Coordinators' ARES pagers requesting the ARES SKYWARN Coordinator call the forecast office at Sterling, Virginia. A short time later, the EC's pagers went off again, this time indicating a SKYWARN net on the Bluemont repeater on 147.300 MHz.

The Montgomery County RACES net control operator requested Montgomery RACES operator Ross Merlin, WA2WDT, check in with the SKYWARN net and act as liaison between nets. One of the earliest reports relayed from the Montgomery County RACES net was turned in by Bill Freienmuth, W3OIO. The National Weather Service Forecast Office was looking for reports of surface temperature and snow depth and intensity, and any report of freezing rain.

RACES was put in a standby mode by the Deputy Radio Officer as it was early evening and, most likely, the first requests for transportation of essential medical personnel would not come until after the evening shift started. So, at 6:46 p.m. a departing N3ESR relinquished net control to Jim Walters, WA2GIN, at his home. Around 9:45 p.m. W3OIO took over as net control assisting the late evening dispatch operations at the DOR until 12:24 a.m. on the 28th. The RACES station at the DOR relied heavily on W3OIO as the net control station as the pager interference was blanketing the entire two-meter band in downtown Rockville. ETS/RACES operations at the DOR closed at 1 a.m.

During the course of events, Mark Shultise, WA3ZLB, provided additional liaison with the SKYWARN net providing some 18 reports.

Because of the light snow fall (3-5 inches) in the Montgomery County, there were only four transports made to two local nursing homes in the county. The first transport, made by Don Dennison, KA3CTR, was dispatched around 10 p.m. The last passengers were delivered to their destinations by Ed Bucheit, KA3RWX, at 12:02 a.m. on the 28th of December. Other ETS transport was made by Howard Lehnert, K3IOG, RACES Radio Officer and ETS driver.

Howard Hays, WB3KHQ, a RACES ETS driver, checked into the net as he had been called out to transport essential personnel to the Emergency Communications Center (E911). This was a separate action from the ETS operation. Larry Golden, KA3BAL, was on standby as a RACES ETS driver. If a full activation of the ETS program had occurred, the full resources of non-RACES ETS volunteer drivers and RACES radio operators would have been paired up and placed into service as driver-communicator/navigator teams.

A formal thank you for the SKYWARN reports provided by Montgomery County RACES was received from the National Weather Service by Montgomery County Emergency Management. An on-the-air sincere thank-you was issued by Rita Magee, KA3WHT, Program Specialist, on behalf of Montgomery County Emergency Management to RACES members during its first net of 1991.

SKYWARN CLASSES STILL BEING GIVEN

In October and November 1990, 75 more people received basic SKYWARN training from National Weather Service personnel. While no classes were scheduled for the month of December, classes resumed in January with SKYWARN training being given in Rockville, Maryland on January 12th and near the Patuxent Naval Air Station, near Lexington Park, Maryland on the evening of January 22nd. Hopes are to have classes in Harrisonburg and Winchester, Virginia in the near future. Persons interested in attending or scheduling classes should contact Barbara McNaught at (703) 260-0209.

PUBLIC SERVICE CALENDAR

Feb. 2 National Capital ARES Council Meeting
10 a.m., location to be announced.
Contact Hank Black, N3ESR (301) 340-8595 or
Harry Jones, N4CWP (703) 204-1781

First Night Annapolis

WHERE WERE YOU ON NEW YEAR'S EVE? . . . ON THE AIR, OF COURSE!

Nearly 50 cities have begun special public activities on New Year's Eve. Annapolis celebrated its inaugural "FIRST NIGHT ANNAPOLIS." Briefly, it opened old town Annapolis to performances by musical and theatrical groups, ice dancing, ice sculptures, and much more. The same state house used in 1790 became a stage for public enjoyment. Shuttle busses toured the city, with on/off service at all of the events along the route. The Naval Academy and historic houses were on the program.

to nets of the National Traffic System. Thanks to them for giving up their holiday evening to be the ears and sounds on the other end. About 170 messages were sent to 39 states and 5 other countries. Nearly half of them were on the way before the station (and store) were closed at 11:00 p.m. The remainder were sent on various nets on January 1. Six club members were on hand, and others stopped by during the evening. Thousands passed the station, displaying varying degrees of fascination at the 23–35 wpm code and translation, without benefit of pencil, of the incoming signals. All gear was packed and gone (except for the dipole) by 11:30 p.m.

The Anne Arundel Radio Club was invited to participate. We suggested a greetings message center with "live" radio activity, and our hosts were delighted. Our location was ideal, at Fawcett's Boat Supplies at the water's edge on the city docks. We were inside, and easily accessible to the public. For those who operate special event stations, here was the set-up. Our gracious host allowed us to assemble an 80 meter dipole . . . on the roof. That's 130 feet, Folks!

We used one HF radio in the building and kept the rig speaker open so the public could hear their messages being sent. Another mobile rig was on standby outside the door. One table held the gear and another provided seating for the addressing of the messages.

The station operated for about four hours. Schedules had been arranged with area stations to pick up the "radiogram" traffic and relay it

Some of the crew went home to get a new year kiss and others were on hand for the fireworks over the harbor at midnight. A super night!

It is wise, in "message center" situations to try to assemble one message that is suitable for the event. With only one text, only the addressee and signature need be sent after the first message has been copied by a relaying station. Holiday seasons increase traffic volume in the NTS. A special event operation "packs" it into a small time window. Planning ahead "arms" the NTS and more trained operators stand by to help. It is just this kind of activity that keeps all "traffic handlers" at the ready to support real emergency situations.

Read about traffic nets in various ham magazines and inquire as to how you can get involved.

Tony Young - WA3YLO

ANNOUNCING!
THE 1991 GREATER BALTIMORE HAMBOREE AND COMPUTERFEST®

SATURDAY, APRIL 6 AND SUNDAY, APRIL 7
MARYLAND STATE FAIRGROUNDS
TIMONIUM, MARYLAND
GATES OPEN AT 8 AM BOTH DAYS

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Many Show Special Bargins

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OUR 20TH YEAR!

ADMISSION $5.00 FOR BOTH DAYS
Show is open 8 a.m.-5 p.m. on Saturday & 8 a.m.-4 p.m. on Sunday
SHOW WILL BE HELD IN ANY WEATHER!
Sponsored by: Baltimore Amateur Radio Club, Inc.
P.O. Box 95, Timonium, MD 21093

ARRL Approved

Talk-In
146.07-67

Call 1-800-HAM-FEST for 24 hour information system.
In MD dial (301) HAM-FEST (Touch Tone Phone Required)

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Congratulations to:

Bob Murnane, N5QLB who has agreed to assume the responsibilities of coordinating the FAR **Widow's Assistance Program.** He will be developing new guidelines for providing quality assistance to the families of Silent Keys and will work with volunteer clubs in the greater Washington suburban area to carry out an effective program. Watch for more information in the next issue of Auto-Call.

Bob Henkel, NA3R on the fine job he has done as coordinator of the Widow's Assistance program for the past several years.

Dave French, N4KET on being featured in a two-page article in the January 1991 QST. Dave is senior weekend anchorman and general correspondent for Cable News Network (CNN) in Washington, D.C. He is also a graduate of the Vienna Wireless Novice classes and one who moved on to become President of VWS. We shouldn't have let QST scoop us on this story! (See Page 40, January QST)

John Barolet, KJ3E on taking on the duties of Maryland Section Manager. John will fill out the term of Ken Cohen, NI3F who has found it necessary to reduce his activities.

Green Mountain Repeater Association on celebrating its 20th Anniversary of service to the Amateur community. (See page 31)

SILENT KEYS

George Bromfield, W4BVU became a Silent Key on September 3 at the age of 80. George joined the CAA/FAA as a radio operator in the early 30s. He retired after 33 years as Electronics Engineer in Washington, DC. After his retirement he went to his home area in Brevard, NC where he designed and supervised the construction of a beautiful home overlooking the Brevard valley and the Blue Ridge Parkway. An unusual feature of the home was a hydraulic ram for supplementing the water system. Before joining CAA, he worked for Independent Telephone Systems. He was a member of the Independent Pioneer Telephone Association. For many years he was an active Radio Amateur in Falls Church, VA. He is survived by his wife, Margaret of Brevard, NC.

(Submitted by Margaret Bromfield via W4HV)

Frank Harry Nelson, K4JUB, a retired electrical engineer, became a Silent Key on December as the result of a fall in his home. He was 74 years old. He worked at Philco Ford Corp. in Philadelphia until he retired in 1972. In 1973, he moved to Fairfax where he worked at Page Communications and Computer Science Corp. and continued doing some computer work until the mid-1980s. He was an active Amateur Radio operator for nearly 60 years and also an avid boater. He was a 20-year member of the U.S. Power Squadron and taught boat safety. He is survived by his wife, Grace, of Fairfax.

(Submitted by Bill Miller, K4MM)

Howard W Davidson, W4NBX died December 17 from cancer. He was 73 years old and had recently retired from Contel/Page. He was a career communications/broadcast engineer and had also worked for T-CAS locally as well as numerous radio stations throughout the country.

(Submitted by Bill Miller, K4MM)

ANNOUNCING THE

VIENNA WIRELESS SOCIETY

WINTERFEST™ 1991

RAIN SNOW OR SHINE

SUNDAY, FEBRUARY 24th

7:30 AM

AT THE

VIENNA COMMUNITY CENTER

120 Cherry Street

Vienna, VA.

FOOD SERVICE

SNACKS-DRINKS

GENERAL ADMISSION

$ 5.00 PER TICKET

XYL, UNDER 12 FREE

FROSTBITE TAILGATING

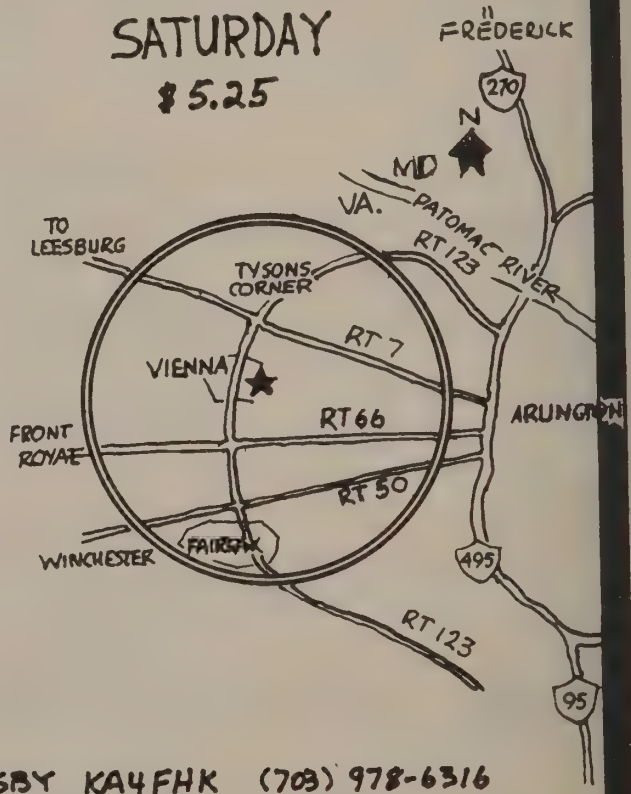
$10 PER SPACE- OPEN 6AM

FIRST COME ~ FIRST SERVED

VEC EXAM 9AM

SATURDAY

$ 5.25



TALK IN KA4TA/R

146.085in 146.685out

146.190in 146.790out

FOR INFO...CALL- PAT CROSBY KA4FHK (703) 978-6316

AN ARRL SANCTIONED HAMFEST

Foundation for Amateur Radio

Ham of the Month

Irene Akers - W3RXJ

The first day the Novice exams were given, back in July of 1951, there was a transit strike in Washington, but Irene Akers managed to get to the FCC and passed the test. She has been a leader in the local Amateur Radio community ever since!

Originally from Pennsylvania, Irene came to Washington to work for the Internal Revenue Service. In 1947 she married the handsome railroad man Forrest ("Frosty") Akers. In 1949 Frosty was bitten by the radio bug and got his Amateur license - W3PTS. (He is now W3PT). This event proved to have a profound effect upon both of their lives.

Frosty was an ardent and gregarious Amateur and the little apartment was always full of Hams. Irene soon decided there was only one solution: "If you can't lick 'em, join 'em". That was when she went out and got her Novice license.

They both became very active in the Washington Mobile Radio Club and Irene became one of W3NL's right-hand gals in editing and producing the early Auto-Call magazine. She and Frosty maintained one of the "autocall" alerting devices (which was designed by Andy Anderson - W3NL (now KØNL)) and they monitored the system 24 hours a day for possible emergency calls. (This device was where the Auto-Call magazine got it's name.)

Irene became coordinator for the Washington Television Interference Committee in the early 50s and she helped in the formation of the Washington Area Young Ladies' Radio Club. When the "Foundation of Radio Amateurs" was formed in 1957 (that was the early name of the Foundation), Irene was one of the earliest Trustees. She has been working with the Foundation ever since. She has just completed five years as the Corresponding Secretary of the Foundation.

For many years Irene has chaired the ladies' and children's programs at the Gaithersburg Hamfest. She has provided considerable assistance in the typing and preparation of the FAR scholarship publicity and has always been ready to give a helping hand in every effort of the Foundation.

She has been particulary active in the Southern Maryland ARC and served as their Trustee to the Foundation for the past 10 years. Frosty is also very active in the club and is Trustee of the club's repeater, W3PT\R.

Irene works one day a week as a volunteer at the Smithsonian Museum of American History, Division of Musical History and frequently helps with events held by the Department of Public Programs. She helps every year at the annual Festival of American Folklife, sponsored by the Smithsonian Institution and the National Park Service and for some time served as an operator at the Amateur Radio station NN3SI at the Museum of American History.

In addition to her extensive Amateur activities, Irene worked for 20 years in Government service. She left the IRS to raised two children, then went back to work - this time for the Navy Department. She retired from Civil Service in April of 1983.

Recognition is long overdue for this dedicated lady who has contributed so much to the Amateur Radio community and the civic community in this area. She certainly has earned the honor of FAR Ham-of-the Month.

(Submitted by K4LMB)

CONGRATULATIONS!

Green Mountain Repeater Association

20 Years Service
To The
Amateur and Community

1971 - 1991

Murray Green, K3BEQ
Past President

Founding Fathers

K3BEQ
K3ZSB
WA3GJD
WA3OLQ
WA3PVO

Repeaters

146.01/61
146.28/88

Green Mountain Repeater Association

Repeaters: 146.01/61, 146.28/88
Mailing Address: 5730 Lockwood Road, Cheverly, MD 20785
Founding Fathers: K3BEQ, K3ZSB, WA3GJD, WA3OLQ, WA3PVO

I sometimes pause at those hamfest flea market tables overflowing with old commercial FM VHF equipment. Those well worn and used relics of control head, speakers, mikes, strips and connecting cables that bring back memories of the early 1970s when they were used by virtually everyone operating FM on 2-meters. Since repeaters were not to be fully abundant for another three years, simplex was the watering-hole for most of us, particularly 146.520 and 146.940. The only full time area repeater in service was the now Maryland FM Association on 146.760. A strong machine that greatly influenced the future expansion of repeaters. It continues to dominate today.

Because of the simplex congestion, it was not uncommon for conversations to turn to the subject of more repeaters. So it was, at a 1970 York, Pa, hamfest that five Amateurs got together and decided to activate a 2-meter autopatch repeater; a first for the Washington DC area. The enthusiasm grew and my residence in Cheverly, Md, located on a ridge overlooking the Capital, was offered as a temporary site. In the months to follow, a Motorola tube type base station and commercial antenna were purchased and autopatch circuits designed and installed in the repeater. Additionally, the necessary paper work was prepared for an FCC repeater license. Finally, in 1971, the repeater was activated, together with the area's first autopatch system on 146.01/61 The original five members became 150, then 200, and peaking to over 300 members within two years.

During the initial membership escalation, it became apparent that an organization had to be formed. I recall that weekend afternoon, the five of us trying desperately to think of an appropriate name, when Bill Kisse - WA3GJD said, "Well Murray Green - K3BEQ is always threatening to move to a mountain and the repeater site is sort of a mountain, so how about "The Green Mountain Repeater Association?"

We subsequently incorporated as non-profit and in 1972 activated a sister repeater on 146.28/88 in Greenbelt, Md. From that time on, repeaters took off across the nation, including our local area.

Some say it was an FM revolution. But like most technological advances, I believe it was more of a evolution. We crawled with the modified commercial units installed in car trunks; then walked with modified repeaters and miniaturized units with their multi-facet capabilities that changed each year; and then sprinted into the nuclear 80s and 90s with handhelds that fit into your shirt pocket and transceivers that can be installed in the space of a car ashtray.

So, the next time you're at a hamfest and pass a table with old commercial FM VHF equipment, slow down and take a good hard look, because that's where it essentially all began.

Murray Green - K3BEQ
Past President

Fauquier Amateur Radio Club

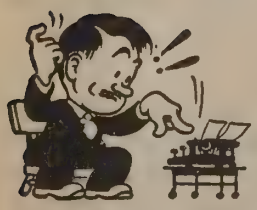
Meetings:	Second Tuesday of each month, 7:30 p.m. Shadow Lawn Center, Warrenton, Virginia
Repeaters:	147.165 Voice (NZ4N), 145.090 Packet BBS (N4YXW-1), 145.070 Packet Digi (K4LLQ-5)
Net:	Each Wednesday, 9:00 p.m., 147.165
Information:	Bob Taylor, KC4CVG. (703) 439-2786 (H) (703) 642-6070 (Work)
Mail Address:	Route 1, Box 445, Amissville, Virginia 22002

The Fauquier Amateur Radio Club annual Christmas dinner was held at the Little Fork Episcopal Church Parish Hall, Culpeper County Virginia, on 14 December. Over thirty members, families, and guests attended. An elaborate traditional Christmas dinner of turkey and Virginia baked ham with all the trimmings was prepared and served by the FARC ladies. A big Thank You is extended to Sandy Mills, Belva Mays - KB4JCL, and Karen Sue Walker - N4XZC, for organizing the dinner and to all those who prepared and brought food.

The first regular meeting of FARC for the new year was held on 8 January at the Shadow Lawn Center in Warrenton. The meeting program consisted of the election of officers to lead the club during 1991. Officers elected are:

President:	Don Maziarz - WY2V
Vice President:	
Secretary:	Chuck Gould - N4YXW
Treasurer:	George Murphy - WD4KOJ
Emergency Coordinator:	Bob Taylor - KC4CVG
Newsletter Editors:	Chuck Gould - N4YXW and Neil Spokes - AB4YK

Bill Mills - KC5PF



Our Readers Say:

In response to the guest editorial of Wayne Williams - K4MOB in the January Auto-Call.

Rather than ask questions as to the current condition of Amateur Radio, it would, in my judgement, better serve if we asked ourselves how we got here.

Well, my fellow Hams, congratulate yourselves. While you were twiddling with your knobs, the special interest gang in Amateur Radio (in and out) slowly lowered Amateur standards. Once upon a time it took some serious effort to master the requirements to become an Amateur Radio operator. That is history. Today, the requirements, material and tests are approaching comic book status. The pressure has been, and continues to be, on quantity not quality. Just rote memory is required to pass any and all Amateur tests. So, I ask, why should there be the beating of the breast concerning the poor condition of our Service? We did it to ourselves.

So, my fellow Hams, continue to sit and twiddle your knobs; you and I will be in CB land before you know it. Our new Amateurs have reached to the level of our standards. Quick, simple, no heavy lifting and you are now a Ham.

A.J. Walsh - AB4CG

Metrovision
FAST SCAN - COLOR - ATV

Meetings:	Quarterly: Call for next meeting time and place.
Repeater:	WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out Also accessible on 144.970, simplex, audio.
On-the-air:	Sundays at 8:00 p.m.
Mailing:	Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information:	Dick - WB3EPX (301) 439-8135 Gene - AD3F (301) 774-5307

1990 was a good year for the Metrovision ARC. We successfully reversed our transmit and receive frequencies on the 400 MHz repeater and, by so doing, eliminated much of the interference to our pictures. The new Celwave 900 MHz vertical antenna was installed at the repeater site and it did much to improve our reception at that frequency. Sub-carrier audio was installed on the 400 MHz repeater which will give the individual more flexibility in purchasing new equipment as he or she can now use either on-carrier or the sub-carrier, whichever is available on the equipment purchased. We want to thank all those members and friends who devoted their time and resources to making these improvements possible.

The recent interference which we have been experiencing on the 400 MHz ATV repeater has been, for the most part, cleared up, thanks to Bruce - WA9GVK, who built and installed a new filter on the repeater.

Membership in Metrovision increased during 1990 by four new members. We encouraged all of our members to keep their dues current and also contribute in any way they can to upgrading our repeater. We still need funds to repackage the 400 MHz repeater and to make other improvements in 1991, so any contributions will be appreciated.

See you on ATV.

Dick - WB3EPX

Our Readers Say:

The issue of a "no-code" license has stirred up as much dust as any issue I've been aware of since I got my first ticket nearly 25 years ago. There's been lots of careful thinking on both sides of the question, as well as a great deal of emotional hogwash - both pro and con. But come on, Amateurs! Regardless of where your own feelings lie about a code requirement, face it - a no-code license is here and I say we need to make the most of it. I'm dismayed to think that we might be facing serious internal factionalism between licensees who have gone through the Morse "rite of passage" and those who have not.

All Amateurs have radio privileges; some more than others, depending on their class of license. I'm not so naive as to think that some of us don't get a bit stuffy (or worse) with hams having a different level ticket than our own. But some of what I'm hearing is a lot worse than that!

What are we afraid of? That we will be overrun by a bunch who don't follow our traditions, let alone the rules and regulations? Could be, if we turn our backs on the newcomers as some have suggested.

Ham radio needs new blood. It always has, or it would have been a fossil hobby long ago. Now we have a way to encourage some of that new blood. (Continued on page 36)

Laurel Amateur Radio Club

A Volunteer Examiner Coordinator

Meetings:	4th Wednesday of each month (except November & December) 8:00 p.m. at Capitol College on Springfield Road, Laurel.
Social:	2nd Wednesday of each month except December. (Call for directions.)
Nets:	1st & 3rd & 5th Wednesday of each month, 8:30 p.m. on 147.54 simplex.
Mail:	P.O. Box 3039, Laurel, MD 20709-0039
Exams:	4th Saturday of each month, 10:00 a.m. at Maryland Radio Center.
Information:	John - W3GFS (301) 490-5286 or Pud - W3DQI (301) 498-6293

The Laurel Amateur Radio Club is active in the Laurel area, which we think generically includes most of Northern PG County, as well as surrounding area. All Amateurs in "our neighborhood" are welcome to participate in LARC activities.

LARC ended the year with a very fine party/installation banquet at the *Brass Duck* in Laurel. Outgoing president John Albertine - W3GFS commented on the successes LARC had enjoyed over the past year and then turned the gavel over to his successor, Bill Bowden - KD3EC. Bill thanked the retiring officers for their efforts and then introduced this year's slate:

President: Bill Bowden - KD3EC
Vice Pres: John Albertine - W3GFS
Secretary: Mary Ellen May - N3FQA
Treasurer Cathy Downs - KA3QPU
Member at Large and FAR Representative:
Joe Seasely - KA3UZI

Our Novice class ended successfully with several Novices, several "partials" (in anticipation of the no-code ticket), and several club members who took advantage of the VE session to upgrade: Bill Herndon -N3IEX passed the Advanced, and Jim Cross - N3IAE went all the way to Extra.

LARC will offer the General/Technician class starting on Monday night, February 4, a at 7:00 p.m. Classes will be held at Pallotti High School at Montgomery and 8th streets. There is no cost for the class but pre-registration is requested. Contact W3GFS (see heading) to register or for information. There will be a VE examination at the end of the ten week course.

LARC closed out its public service calendar for the year by helping the Soroptimist Club with the Laurel Main Street Christmas parade and tree lighting. KD3EC, W3DQI, K3SO and N3IAE brought order to the chaos and made sure Santa got to the tree in time for the lighting ceremony.

Our first public service event of the new year will be the George Washington Marathon in Beltsville on February 17. Then I think we can rest awhile until the Main Street event in May. I hope everyone had a great holiday season and wish you-all the best in the New Year. Also, LARC Members, your dues are due!

For information on local club event, give a call to John or Pud (listed above) or drop a note to the club address. Or, if you suffer from insomnia, give a shout on the club frequency of 147.54 any night after 9:00 p.m. and add some social grace to the cacophony which is (sometimes) present!

Pud - W3DQI

SERVICE
While U Wait
commodore
64/128/1541/1571 AMIGA 500
Authorized Service Center • In & Out Warranty
10% discount on repair with this ad,
13646 Jeff Davis Hwy.
Woodbridge, VA 22911
491-6502 643-1170
MWF 12 - 8 TT 10 - 5 Sat 10-4
Virginia Micro Systems

Arlington Amateur Radio Club

Meetings: Third Tuesday of each month at 7:30 p.m.
Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)
Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM
Info: Rick Bunn, N4ASX Phone number (703) 685-7765.

PRESIDENT'S NOTES

It seems that in my introduction as club president I demonstrated a case of "Foot-mouth disease" when I suggested we appoint a station manager and open the "Club" station to those in the club who don't have stations or antennas that allow them to make DX contacts. The club already has a station manager in Tom - W4LMW who has done a fine job and, I hope, will continue. After talking with some of the members of the club, it was brought to my attention that the station (1) belongs to the Red Cross as an emergency asset and (2) the Red Cross building is a very busy place and that many of the activities going on at the Red Cross building are in support of their day to day operations. My suggestion of opening the station would have to be tempered with our not interfering with the day to day operations of the chapter. It is also important to note that the station is operated, in time of emergency, drill or service; in support of the Red Cross, not by the club but by the ARES.

It is obvious that my well intentioned suggestion was made in ignorance. I apologize to Tom, our station trustee and Craig, our ARES EC, and hope that both will continue to do the fine jobs that they have done in the past both for ARES and the club.

I have talked with Craig and he does agree that the station should be used frequently, when its operation does not interfere with normal Red Cross activities, and supports the readiness of the ARES to operate the station. One area where we will attempt to operate the station will be during contests during the year.

I would like to thank Jim - AB4YP, our program chairman, for volunteering to act as station manager. While that job is held by Tom, I'm sure that Craig will keep Jim in mind when an operator is needed during hours when the rest of us have to be at work. We'll be hearing more from Jim as he lines up programs during the year.

ARLINGTON AMATEUR RADIO EMERGENCY SERVICES

The Arlington County Amateur Radio Emergency Services (ARES) is composed of FCC licensed Amateurs who have voluntarily registered their capabilities and equipment for public service communications.

The Arlington County ARES functions under an EMERGENCY PLAN under the direction of the Arlington County Emergency Coordinator (EC) who is appointed by the Virginia Section Emergency Coordinator of the ARRL. The EC may appoint assistant ECs sufficient to function efficiently.

The purpose of the plan is to provide a written guide containing the minimum information that would be needed in an emergency. Each emergency is different and flexibility to provide as adequate response to each is a necessity.

The primary responsibility of the Arlington county ARES is to furnish emergency communications in the event of natural or man-made disasters, when regular communications fail or are inadequate.

Drills, training, and instruction are carried out to insure readiness to respond quickly in providing effective Amateur emergency communications whenever an occasion may arise.

The following agencies could be served during a communications emergency: Other ARES groups; The Arlington Chapter, American Red Cross; Arlington Fire Dept., Civil Defence, Arlington Hospital, Salvation Army, Arlington Police Dept., Nation Weather Service and any other disaster relief agencies requesting assistance.

(Continued)

Arlington Amateur Radio Club - Continued

An emergency response plan adopted by the county prescribes that county requests for ARES assistance do not come directly to the EC but are channeled through the Arlington Red Cross.

If you which to register with ARES or obtain further information, contact Craig Church - N4EFJ at (703)979-8325.

The past year was probably one of, if not the most, successful years for the Arlington Amateur Radio Club. Craig and the past officers deserve a big round of applause for a job well done. The club made a lot of progress, but let's not stop now. It will be hard to top the last year.

The club sponsored a licensing class, and conducted VE exams for the first time. Both are very effective ways to let the public know about the club and ham radio in general. We should not stop doing our PR work. Without the benefit of licensing classes, many people don't know what ham radio is all about, or never will know, much less just how easy it really is to join our ranks.

Last year saw the installation of the long awaited tower and HF beam. If you haven't seen it, drive by the chapter house some time a have a look. It's impressive! Now that the club has an antenna system worthy of the big guns, we should have no trouble being heard. In addition, there is a two meter beam on top and the old antenna will be dedicated to packet during an emergency operation.

The highlight of the December meeting was, of course, the election of officers for 1991. Those elected were:

President:	Rick Bunn, N4ASX
Vice Pres:	John McCann, KW4U
Treasurer:	Tom Protz, N4BYF
Secretary:	Rich Adamy, KA4GFY
Programs:	Jim Hurysz, AB4YP

On behalf of all the officers for 1991, I would like to thank all of you for supporting us during the elections and hope to hear from all of you during the upcoming year. If you have any questions, comments, or suggestions, tell us. After all, we were elected to represent you.

Rich, KA4GFY

Our Readers Say - Continued

We must recognize that, as a largely self-regulated hobby, hams owe it to newcomers to lead, to teach, to set proper examples, and to encourage upgrading of skills and knowledge. Most of us have been on the receiving end somewhere in our Amateur careers. If we shun folks because they haven't been through that Morse baptism, then all the gloom and doom predictions will probably come to pass.

I happen to like code, and I use it with a sense of pride and accomplishment. But don't kid yourself, a code test is no filter which automatically keeps the "riff-raff" out of the Amateur ranks. If knowing Morse code was a prerequisite for being a "good" ham, we wouldn't have very many license revocations, would we?

I hope that the many wonderful people who make up the ham ranks will not allow the Amateur bands to sound like a zoo or cause us to lose frequencies to other radio services because we couldn't adhere to the principles of the Amateur Service; the fastest way to encourage that disaster is to turn our backs on a group who are, for the most part, eager to learn and who need to be shown the way.

Bob Israel, WC3I

Baltimore Radio Amateur TV Society

Meetings: Bi-monthly (even months), Irregular dates
Baltimore County General Hospital on Old Court Road in Randallstown, MD
Address: P.O. Box 5915, Baltimore, MD 21208

Any reprints from this column must be approved in advance

The officers, directors and members of The BRATS wish you all a happy, healthy 1991.

Our elections were held at the December Board meeting. Our four officers were re-elected:

President: Bob - WA3SWA
Vice Pres: Franz - N3HFS
Secretary: Mayer - W3GXK
Treasurer: Les - W3GXT

Two incumbent Board members re-elected:
Terry - WA3DZZ and Jinx - W3JPG

The four additional Board members elected to two-year terms were:

Al - N3HOE; Samira - N3HYU;
Mark - N3HYT and Doc - N3FBQ

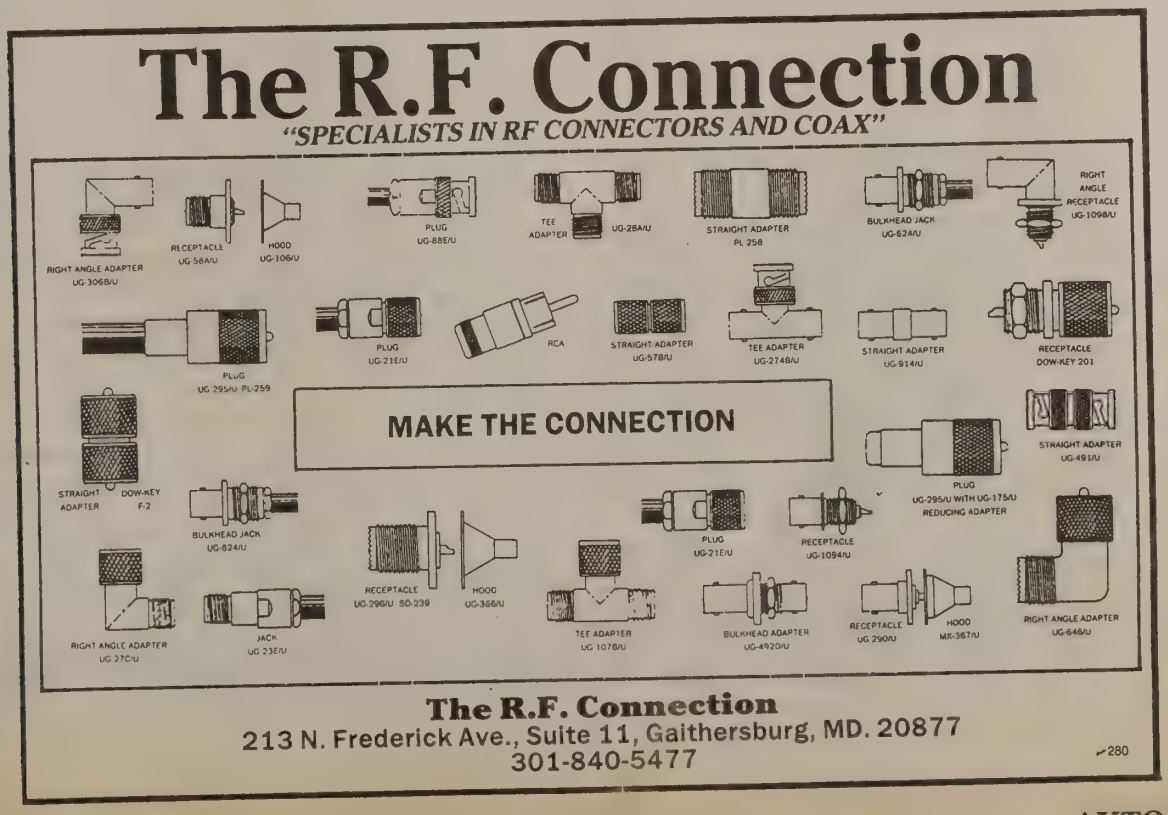
Continuing on the Board through this December are:

Bill - KA3IDB; Gil - N3FDO;
Don - N3FQC; Mike - N33ZD;
Jim - KA3TPA

Our 1991 bi-monthly meetings well be held at 7:30 p.m. at Baltimore County General Hospital on Old Court Road in Randallstown on February 7, April 2, June 11, August 6, October 8 and December 10. Our Board/ Business meetings continue on the first Saturday of each month at 3:00 p.m. at the Pikesville Library; 1301 Reisterstown Road in Pikesville. All are welcome to all meetings.

Work has started on the 1991 edition of the FAMOUS BRATS Maryland HAMFEST and COMPUTER FEST at the Timonium Fairgrounds, Sunday, July 28. For information and/or reservations, call The BRATS info line at (301) 583-9147. The same number is also good for info about The BRATS, BRATS activities and events and membership info. There is a recorder on the number, so you can leave a message if you want someone to get back to you.

Mayer - W3GXK



Southern Maryland Amateur Radio Club

Meetings:	2nd Friday of each month at 7:30 p.m. Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.
Nets:	Tuesdays at 8:00 p.m. on 147.75/15 Repeater Thursdays at 8:00 p.m.on 28.447 USB
Packet:	WA3TAI full service PBBS in Ackokeek, MD 145.03 & 446.075 SMD (WA3TAI-5) NET/ROM Node in Ackokeek, MD
Repeater:	W3PT/R 147.75/15, Cheltenham, MD. Autopatch to 911
Mailing:	P.O. Box 273, Cheltenham, MD 20623
Information:	Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

The SMARC Christmas dinner was the highlight of our club's holiday season once again. The room at Stoney's restaurant was full, the food was good and everyone had a fine time. As usual, the Indian Giver's Gift Exchange was the highlight of the evening. Notable exchanges included an old R390 receiver which changed hands more than any other gift, and N3FUZ attempting to exchange his gift for N9IIC's son (4 months), who took an unusual interest in the goings on for someone his age.

SMARC gave the FCC the month off in December. For the first time in over a year, we have no upgrades to report this month.

Work on the repeater has been progressing. To date, everything but the hardline has been replaced, so we're only one item away from having a completely new system from AC plug to antenna. Naturally, we plan on waiting for the worst storm of the winter to replace the hardline so it will work better.

Our next meeting will be Friday, February 8th at the church at 7:30.

KO7V

Stafford Amateur Radio Association

Meetings:	Weekly, 0730 a.m. every Saturday morning. at the "Nothin Fancy" Cafe on Route 1. All meetings are informal.
Repeater:	N4SMP/R 145.27 out 144.67 in. Autopatch for members.
Mailing:	c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232
Information:	Dick Kirby - W4GFB (703) 720-0406 or George Gautney - N4SMP (703) 659-5720
Packet:	145.07, W4GFB-2

Bob, WD4FOJ, has a brand new Icom station - which has been on the air only once - for sale at a really good price. For $900, he will sell his Icom 725, PS-55 heavy duty power supply, MFJ 300 watt tuner, eight foot ground rod, and AP8 vertical antenna (worth over $250 by itself). Bob's handicaps make it difficult to take advantage of the capabilities of this station, but he doesn't want to see a good piece of equipment go to waste. You can contact any SARA officer or send a packet message to WD4FOJ on his own mailbox, or via W4GFB-2 (both are on 145.07).

The Christmas break was so much enjoyed that SARA has nothing else to report. Until next month.

Spike - K9MX

Vienna Wireless Society

25 Years of Public Service

Meetings:	2nd and 4th Fridays of each month, 7:30 p.m. Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeaters:	K4HTA/R 146.085 in/146.685 out 222.340 in/223.940 out, 448.250 in/443.250 out
Nets:	Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out. Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz
Information:	Brian Treadwell, WV4V (703) 938-1442 (H), (202) 457-7179 (O)
Training Classes:	Paul Wilkins, AB4CY (703) 560-2779
Mailing Address:	P.O. Box 418, Vienna, VA 22183

December was a very busy month for the members of the Vienna Wireless Society. We had elections for two new members of the Board of Directors, new officers to guide the club for 1991, and a new budget. On December 14 we held elections for two positions on the Board of Directors. We are fortunate to welcome Barry - KD4BK and Bob - K4MJO to the positions being relinquished by Paul and Jim. We wish to thank Paul and Jim for their work during the past year.

At a Board meeting held on the 16th of December we had the election of the next president (Pat Crosby - KA4FHK) and the formulation of the budget for 1991 to be presented to the general membership for approval. With a lot of help from the members, I hope to continue to lead the club in the new year. Many thanks to Paul - AB4CY for his leadership as president in the past year.

Our most important event takes place on Sunday, February 24th at the Vienna Community Center - **WINTERFEST™** (See the ad on page 28). The Center will be a busy and exciting place to be on that Sunday. We also have scheduled VE Exams Saturday, the 23rd of February, also at the Community Center. The cost of the exam is $5.25, and if you are upgrading you will need to bring a copy and the original of the license you presently hold.

We always hope and pray for good weather for **WINTERFEST™**, but then we would have to change the name! $5.00 at the door will get you in to a great hamfest. Come and join us. See the ad on page 28 for talk-in frequencies.

I would like to call your attention to the January issue of QST. On pages 40 and 41, there is an excellent article on one of our members, Dave French - N4KET. The first time I met Dave was at a meeting a few years ago when he was the MC for our installation of officers, and I said to myself, "He sure is doing a good job of MCing." I also said to myself, "I know him from somewhere." Well, I did recognize him finally. Dave is the week-end anchor for CNN. No wonder he did a great job at our installation ceremony! It is a great article written by Robert Halprin - K1XA. I would encourage you to read it.

See you all at **WINTERFEST™** 1991. (We're counting on the ground hog to bring the usual good weather for the event.)

Pat - KA4FHK

Maryland Mobileers

Meetings:	First Friday of each month at 1930 hours. Basement of Police C.I.D. Building at Crownsville State Hospital Grounds Route 178 and Crownsville Road.
Repeater:	W3PJQ 146.805 MHz (output) in Millersville
Nets:	Mondays - 2030 on 146.805 - Traffic and Information Net Tuesdays - 2000 on 144.215 - SSB Net Wednesdays - 2000 on 147.495 - FX Simplex Net
Contact:	Bill Dillon - WA3SCW ((301) 551-8972 or '@ K3IVO' in packet
Address:	P.O. Box 935, Severna Park, Md 21144

The MMARC has been sponsoring a Novice class which started on January 7. Sessions are held on Mondays and Thursdays from 6:00 to 8:30 p.m. in the Broadneck Public Library in Annapolis. For further information, contact John Kohl - KO4A at (301) 757-8148 or Glenn Durbin - N3EYU at (301) 643-1125.

New Members: N2GTE, N3IEM, N3IGU, KB4JXK, W3OBV and KA3VWO.

Certificates of Merit from ARRL, and signed by MDC Section Emergency Coordinator, were presented to KO4A and XYL, NU3D, N3DFS, N3EKZ, WA3SCW, NS3V, W3VVN and NT3Z, for their efforts during the repatriation of persons from the Mid-East during 10–16 September.

Congratulations to KU3Q on his retirement from government service after 32 years, and to W3VOU on his retirement from government service after 36 years.

WA3SCW was the fox during the September 16th fox hunt sponsored by MMARC/ CARA/ BARC. Ten or twelve hams participated and all had a good time. DF gear ranged from HT's and rubber duckies to doppler equipment.

New MMARC officers for 1991:

President:	WB3V
Vice Pres:	W3GOU
Secretary:	WA3SCW
Treasurer:	KA3OMU
Director:	K3ZHD

(All can be reached at the WB3V Packet BBS)

In October WA3SCW and K3ZHD provided communications for a 10K Run from Severna Park High School to Marley Station Mall along the newly opened B&A jogging trail.

K04A put together a station and used the club call, WA3PJQ, for the newly reactivated Maryland QSO Party at the Broadneck Public Library. WA3SCW placed second in Maryland in the Mobile category.

Bill Dillon - WA3SCW

Foundation Meetings

The Foundation for Amateur Radio meets at 8:00 p.m. on the second Wednesday of each month.

Visitors are always welcome

Membership is open to any Amateur Radio organization in the local area.

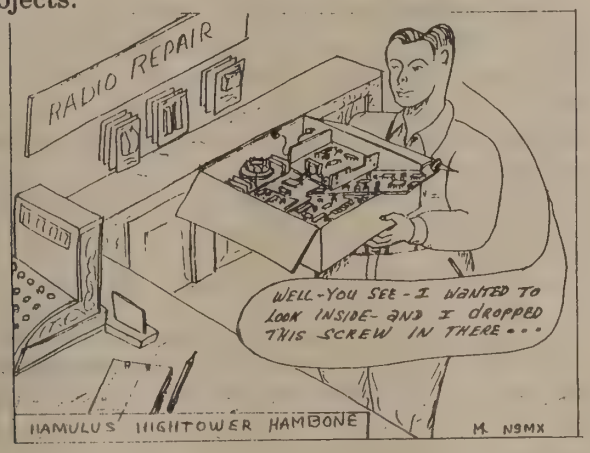
Phone (301) 725-5822 for information

The next meeting will be on February 13 in Takoma Park, Maryland
Columbia Union College Science Building Auditorium, Flower Avenue
Talk-in on 147.18

Pentagon Amateur Radio Club

Meetings	Monthly, on the second Wednesday of the month. Noon. PARC clubroom (5B272), The Pentagon
Repeater:	K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.
Packet:	145.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN
Mailing:	P.O. Box 47063, Washington, DC 20050
Information:	David G. Boyd - K9MX (703) 695-2020 or (703) 659-6241 or William Klein - N4VBW (703) 697-8157 or (703) 590-2546

The last month of 1990 was both a frenetic and a slow one for the Pentagon Amateur Radio Club. While members worked frenetically on Desert Shield problems, Amateur Radio at the Pentagon was pretty much put on hold. Lunch hours still see eight or ten members in the club house, but principal topics of discussion tend now to be far removed from Amateur Radio and instead focus on sand, tactics, logistics and other more mundane subjects.



Nevertheless, PARC continues to grow and now has a membership approaching 60. Bob Bonn, N4YZU, our club house cleaning manager (he's unofficial, but awfully good) pinned on the eagles of a full colonel in the Air Force. He's been pretty busy in the Air Force operations center lately, so we haven't seen him about much. Worse, he had his eagles pinned on the 28th of December, when most of the club members were on leave. Since he says he's going to Dayton, we plan to gang up on him and force him to hold a mini-promotion party for hamdom. (Let's see, attendance at Dayton is about 30,000 . . .)

The Yaesu FT-1000 has turned out to be a really popular piece of equipment - so much so that Dave Klimaj, W4JVN, even bought one for himself.

At any rate, a great New Year to everybody and we hope every member got at least one piece of ham gear for Christmas.

Spike - K9MX

Satellite History

For those of you who think Amateur satellites are a new happening in Amateur Radio, guess again. The Amateur space program is more than eligible for membership in the QCWA. OSCAR 1 was launched December 12, 1961, aboard an Air Force Agena-Thor launch vehicle. It was the world's first non-military satellite.

The eleven active Amateur satellites now in orbit are AMSAT OSCAR-10, Radio Sputnik-10/11, UoSat OSCAR-11, AMSAT OSCAR-13, UoSat OSCAR-15, AMSAT OSCAR-16, DOVE OSCAR-17, Weber-OSCAR-18, LU-SAT OSCAR-19, Fuji OSCAR-20 and BADR-1.

(Excerpts from "Amateur Satellites" by Keith Berlung, KB5ZDP Appearing in The BRATS *Milliwatt* Newsletter of 12/90)

QCWA - Vic Clark Chapter

Meetings: Approximately every-other month.
Alternating Wednesday dinner meeting and Saturday luncheon meeting at Falls Church S&W Cafeteria.

Information: Em Mehrling, W4NH (703) 273-0737 or
Jack Kelleher, W4ZC (301) 924-1605

The Vic Clark Chapter of QCWA held a joint Christmas meeting with the Washington Chapter X of the Society of Wireless Pioneers on December 15. The meeting was held as a luncheon-meeting at the Ramada Hotel in Tysons Corner, Virginia. In spite of a cold and rainy day, the turn-out was great. Thirty members of SOWP attended and over 40 members of the Vic Clark Chapter were there - one of the best attended meetings for some time.

Business was limited to conducting an election for the coming year. Jack Kelleher, the outgoing president, conducted the election. The results of the election placed John Swafford - W4HU as the new president and Ethel Smith - K4LMB as the new vice president.. Re-elected as secretary was Lew Bradley - W4SWP and Carl Gray - W4ACM as treasurer.

Emerson Mehrling - W4NH welcomed all SOWP and QCWA members and their guests in his opening comments and passed along the best wishes of a number of SOWP members.

Following the meal, Jack Kelleher introduced Harry Dannals - W2HD, National President of the QCWA as our featured speaker. Harry made an outstanding presentation on a number of Amateur related subjects and enjoyed considerable audience participation. His report on the Kansas City convention was an in-depth report on current problems, considerations, and the future of Amateur Radio. He closed his address with a special note on the importance of being helpful to the new Amateurs who are just getting started.

Progress is being made on plans for the annual Spring Banquet (formerly the QCWA Old Timer's Dinner) which will be held at the Bethesda Officers' Club on April 6. This banquet has been a local tradition over the last 35 years and is now conducted as a joint effort with the Foundation for Amateur Radio. Mark your calendar to reserve this important date.

Lew Bradley - W4SWP

Lunch Bunch Meetings

The Winchester Lunch Bunch meets at 12:00 Noon on the 2nd and 4th Wednesdays of each month at the Lee-Jackson Best Western Restaurant, 711 Millwood Avenue (Rt 50 East), Winchester, Virginia. The next meetings will be February 13 and February 27. If you can attend, please advise Perry Crabill, W3HQX no later than 9:00 a.m. that Wednesday. Phone (703) 662-7526 or call the W4RKC Repeater, 146.22/82

The Morgan County, West Virginia Lunch Bunch meets at 11:45 a.m. on the 1st Tuesday of each month. The meeting is at the Appalachian Restaurant, 209 N. Washington St., Berkely Springs, West Virginia. Please make reservations with Ward Crabill, W3JGK at (304) 258-5767 or Frank Withnell, KA3MPY at (304) 258-2965. Reservations are required no later than 8:30 p.m. on the Monday prior to the luncheon. The next meeting will be Tuesday, February 5. All Amateur Radio Operators and guests are welcome.

Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings:	Quarterly, on the second Sunday of the month. Time and place to be announced.
Repeater:	N3AGB/R, 52.250 MHz in; 53.250 MHz out.
On-the-air:	Saturdays at 1900 hours.
Mailing:	Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903
Information:	Bob Sporn - WA3GGO (301) 434-1719

Six meter gear in the area may not be readily available, but our president, Bob Milligan - KI4MB, has an assortment of six meter rigs and can arrange to furnish this. His land line is (703) 533-0650.

Sick Call: Harry Blutstein - W3AY is recovering from a fall which resulted in five sutures in his head.

Congratulations to Stanley Brigham - W3TFA who entered his fiftieth year in Amateur Radio.

At our December meeting the following officers were elected for 1991:

President:	Robert D. Milligan	KI4MB
Vice Pres:	Christian Kushay	KA3LJR
Secretaries:	Bob Sporn	WA3GGO
	Joe Saunders	K3UAL
Treasurers:	Richard W. Logan	WB3EPX
	David Bennett	KA3TQA
Board of Directors:		
	Bron R. Kidwell	N3AGB
	Marvin T. Storey	N3FBO
	Lukas E. Hoska	WA3UEA

THE SUNDAY MORNING COFFEE NET (50.4 MHz) AM AT 0900 HOURS.
The Annual Xmas Net was held as usual, in spite of poor band conditions. Inquiries have been made and we expect some new participants when the interested parties establish their stations.

MARYLAND FREESTATE SIX METER SIDEBAND NET (50.125 MHz) SUNDAYS AT 1900 HOURS. Chris Kushay - KA3LJR, as net control, has been having an active participation on this net. AM, FM, or Sideband, join our nets on six.

Bob - KI4MB

Philippine Medals

If you served in the Philippines during WW-II you may qualify for medals which are now being issued. There is a small charge but these are very attractive medals and well worth the cost. If you have discharges and/or a DD-214 showing service in the Philippines during the period of December 7, 1941, to June 15, 1942, you qualify for the Philippine Defense Medal. If you were there October 17, 1944 to September 3, 1945, you qualify for the Liberation Medal. And if you are qualified for either of these medals you are entitled to get the Independence Medal and the Presidential Unit citation bar.

For information on obtaining these medals, you may call (202) 462-1770.

Information from Gallups Island Radio Association "Spark Gap" of 12/90, Tom Cruse, Editor.)

Anne Arundel Radio Club

Meetings:	First and Third Thursdays at 8:00 p.m. Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off Md. Rt 214 near Annapolis
On-the-Air	Thursdays when there is no club meeting, 2030 Local on 147.705/105 Tuesdays at 2030 Local time on 28.410 Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz
Address:	P.O. Box 308, Davidsonville, MD 21035 Margaret (Holly) Bevan, (301) 923-0229

The Club's Family Christmas Party was held at the Clubhouse on December 20th. Over 100 persons attended, about 20 of which were children. The food was good, the camaraderie was great. When Santa arrived he had in his pack a gift for each child. He called them up to him by name to receive their packages. He also presided over the adult gift exchange. It was great fun for everyone.

One highlight of the Christmas Party was selecting the winner of a large hand-crocheted afghan which was donated by Club member Betty Tiemeyer - K3VRZ.

The following slate of officers was elected on December 6th to serve AARC during 1991:

President:	Douglas Sweely - N2IBM
Vice Pres:	Carter Anderson - N3GRX
Secretary:	Harold (Bob) Dove - KA3OCZ
Treasurer:	Robert (Bob) Israel - WC3I
Directors:	Dave Walter - N3BFO (automatic)
	Margie Currey - KA3PQP
	Oscar Ramsey - NV3G

A number of AARC members participated in the first annual New Year's Eve celebration held in Annapolis by *First Night Annapolis.* The Club set up an Amateur Radiogram Center just inside the entrance to Fawcett Boat Supplies on the Annapolis waterfront. For five hours (6:00 to 11:00 p.m.) 165 messages were accepted from the visiting public, about half of which were transmitted during the event.

Several Club members were on the site by 4:30 p.m. to set up the station and to erect an 80-meter dipole (about 125 feet) on the roof of the building. It was an ideal situation for the occasion.

The 1991 AARC Novice Course is scheduled to start on the first Saturday in February. The classes will meet each Saturday morning from 9:30 to 12:00 Noon (except for Easter weekend) for 12 weeks. For more information or to register, contact Holly - N3BMB at 923-0229 or Tony - WA3YLO at 262-1917.

On December 8th at the Clubhouse, Nancy - NT3Z and Dean Alley - NS3V (and the VE team) administered 16 exams elements to 9 persons. There were six upgrades. Nancy and Dean's team will continue to give the exams there the second Saturday of each month as long as they continue to receive the excellent support they have enjoyed so far.

Carole Connolly - KA3WTP and Ann Summerfelt - N3ILA have upgraded to Extra. Dennis Brady - N3HFM, Tina Brady - N3HFN, and Vince Burgher - N3IEG are now General. New calls include Craig Ryder - N3ILT (formerly KA3VBU) and Paul Gerhardt - WG3I (formerly KB3HH).

Holly - N3BMB

Maryland Emergency Phone Net

Meetings: Every night, 3920 kHz, 1800 local time (All are welcome)
Net Manager: George Korper, WD3W
Secretary: Robert Roberts, K3ONU
Treasurer: Rino Masso, KC3ZJ
Directors: NF3X, W3DQI, W3LDD; WA3YLO (Alternte)
FAR Representative: KC3ZJ

The Maryland Emergency Phone Net (MEPN) is a club, a member of the National Traffic System (NTS), and meets every night on 3920 kHz at 1800L for the purposes of training operators in net procedures and traffic handling; to handle traffic for Maryland and the District of Columbia; and to establish communication links in these areas so that, in the event of an emergency requiring Amateur Radio communication assistance, the MEPN will be prepared to exercise these links until the emergency subsides.

All Radio Amateurs are invited to participate in the MEPN, and those wishing to join the club and receive the monthly bulletin and roll-call sheet should contact either WD3W or K3ONU. Yearly dues are $7.00, and there are currently 65 members. DUES ARE DUE NOW!

First of all, from all of MEPN to all Amateurs, Happy New Year. We hope to hear you on the net sometime soon.

The net is currently very active with holiday traffic, and is looking for help on two fronts: we need more packet operators to download and distribute traffic, especially in the more populous areas; also, more MARS operators are needed to process the *DESERT SHIELD* traffic, both incoming and outgoing. If you would like to get involved in public service/traffic handling, the MEPN is a good place to start. If CW is your thing, the MEPN could use you as liaison with MDD or MSN.

Finally, we still need some volunteers to meet the Third Region net at 1615 local, daily. This net meets on 3913 kHz and is generally the input for traffic to the MEPN 6:00 p.m. session. If you can afford at least one day per week, check it out! Third region net meets for about fifteen minutes; MEPN is generally over by 6:30.

With winter (finally) here, we are experiencing a little QRM at net time. Puerto Rico is booming in from the South, and Nines and Zeros from the North. On the up-side of this, we are hearing several of our travelling and/or retired members checking in from Florida and Maine.

See you ON THE AIR!

Pud - W3DQI

SAREX Appeal

Letters and telephone calls from over 850 ham teachers and hams assisting teachers surpassed our highest expectations for interest in SAREX, the Shuttle Amateur Radio EXperiment. In response, ARRL developed printed lesson plans, news releases and resource materials, coordinated relay systems, sponsored videotapes, publicized mission information and provided $8,000 for hardware for STS-35 with Dr. Ron Parise, WA4SIR on board. Working in partnership with AMSAT/NA, we've handled hundreds of small details in order to pull together a winning combination: Youth and Amateur Radio! A second SAREX mission, STS-37, will feature pilot Ken Cameron, KB5AWP, and the rest of his crew (all licensed hams!), operating voice, packet, and fast and slow scan television in the Spring.

ARRL needs donations to continue this program. We have several industry donations so far, but hope you will be a part of the adventure of stimulating our country's youth. Your generosity will directly affect the future of Amateur Radio and our country's worldwide competitiveness. Every donation toward SAREX will be acknowledged with gratitude. Make your check payable to the ARRL SAREX Fund. We need you!

(Excerpts from letter signed by Roy Neal, K6DUE

"Ole Virginia Hams " Amateur Radio Club

Meetings:	Third Monday of each month, 8:00 p.m. Northern Virginia Coop Building 10323 Lomond Drive, Manassas, Virginia
Repeaters:	Voice: WA4FPM 146.97 and 224.66 Digipeater WA4FPM-1 145.09 Digipeater WA4FPM-3 223.40
Net:	Each Thursday, 8:00 p.m., 146.97 and 224.66
Information:	Harry Vorhauer - W4PVA 703-368-6050 Steve Frick - N4OGR 703-361-0008 or Metro 690-6547
Mail Address:	Ole Virginia Hams ARC, PO Box 1255, Manassas, VA 22110

On Saturday, November 17, an ARRL/VEC exam session was held at the Manassas campus of Northern Virginia Community College (NVCC) with 18 aspiring candidates in attendance. The session resulted in 12 upgraded tickets. A total of 31 FCC elements were taken with successful results on 19 of them. The turnout of accredited VEs was so good that all could not participate productively. The exam team consisted of Harry Vorhauer (W4PVA, VE Team Contact Person), Keith Bennington (KM4AA, VE Team Liaison), Mike Weber (WB8RDN), Stu Gilman (KC0PR), Mike Squires (N4REI), Milt Warnock (N4SN) and Bob Spindle (WA4QYP). OVH's next exam session is planned for June 8, 1991 and will most likely be held again at the Manassas Campus of NVCC. For information, contact Harry Vorhauer, 703-368-6050. Harry can often be reached on the Manassas repeater as well.

The last classroom session of OVH's Novice Class was held on December 18. The class started with 8 students in attendance. The results were quite gratifying to the participating OVH members. Four met all test requirements for the Novice ticket. Two more passed the code exam and may have passed the written exam by the time this issue reaches your hands. The chairman of the Education Committee, Dick Miller (WD4AZG), taught theory and regulations while Mary Lou Blasdell (KB4EFP) did a fine job of teaching code. As in most OVH activities, Harry (W4PVA) left his fingerprints on the action. Harry provided a lecture on how amateur radio benefits the public. For information on future classes, contact Dick Miller (WD4AZG) on 703-791-3839. Congratulations to the Education Committee!

Mike - N4REI

When Does Your Ticket Expire?

Have you taken a look at the expiration date on your Amateur license lately? That date has a nasty way of sneaking up on you. Every few months we hear of someone who suddenly discovered he has been operating without a valid license for the past year or more. Don't let this happen to you! Dig out that license and take a look at it.

Mt. Vernon Amateur Radio Club (MVARC)

Meetings: Second Thursday of Each Month, 7:30 p.m.
Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria
Repeater: WD4PDP/R 146.055 input 146.655 output
Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's)
Starts on 2-meter then moves to 10-meter on 28.405
Information: Chris Morrow, W4WYL (703)765-5964
Training Classes: John Forrest, WZ4A (703) 971-3905
Mailing Address: c/o Chris Morrow, W4WYL, 7408 Recard Ln., Alexandria, VA 22307

THANKS to members of MVARC and The Downtown Delegation (members of the Alexandria Harmonizers), we had another great Christmas Party. (In December, we don't have a regular meeting. Instead, we enjoy each other's company at a dinner party.) This year we went to the Woodlawn Country Club, had a large room all to ourselves, ate a delicious buffet and enjoyed the fine entertainment. Again, THANK YOU very much fellows for the great music! And particular THANKS to Chris W4WYL for asking The Downtown Delegation to the party. The turnout was terrific again this year...over 50 folks were able to make it this year.

CONGRATULATIONS to Aaron Claxton for upgrading to Technician!

A second reminder for those who have forgotten and information for those who never knew...club members frequently can be found at Chi-Chi's eating dinner just before the club meetings. Dick AB4JX and I usually get there by 5:30 p.m., but others join us as time goes by (some arriving as late as 6:45!)

Not club related, but something about which I want to make noise...thanks go out to Hartford and New London, Connecticut and New Jersey (in the vicinity of Camden) hams who helped Dick AB4JX and me on our drive to and from Boston this Christmas. We had car trouble going North through Hartford, car trouble going South through New London and traffic trouble on the New Jersey Turnpike (sounds like a really fun trip, doesn't it?). Every time we got on 2m, someone was there to help. It inspires me to listen to my 2m rig more just in case someone comes through our town and needs help!

February will bring another great program so join us (and bring your friends, loved ones, etc...) on the 14th!

Marci, KM4VM

Stainless Steel Hardware

Anyone who thinks stainless steel hardware is the best thing to use for assembling aluminum structures, especially in areas with high humidity or salt spray, deserves to have it fall on his head. Stainless steel turns to powder very quickly under such conditions, and does it on the inside of the joint where you can't see it until it breaks. Heavy zinc or cadmium plated high-tensile steel is preferable. It doesn't last much longer than stainless steel, but it gives early warning of failure, as the plating disappears from the exposed parts first. The resulting rust is easily seen and maintenance "down time" can be scheduled before the tower or antenna brings itself down. I'm not too good at chemistry, but I understand it is a result of the relative electrochemical potentials between metals (the thing that makes batteries work, and why zinc protects steel until all the zinc corrodes away). Stainless steel and aluminum have a much greater potential difference than zinc and aluminum so, under equal conditions, stainless steel corrodes more quickly than zinc.

By Don Hills IBM ANTENNA FORUM in Central Arkansas Newsletter, *Caren* 1/91, Editor WB5FDP

G AND G ELECTRONICS
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.
Zip 20877

WANTED
FOR
CASH!

USED Ham Gear, Test Equip. and Junque Boxes

G&G ELECTRONICS OF MARYLAND
JEFFREY GOLDMAN
8524 DAKOTA DRIVE (301) 258-7373
GAITHERSBURG, MD 20877

548

March 1 19 87

65-7198/2550

PAY TO THE ORDER OF John Q. Amateur, WA4XYZ $ 500.00

Five Hundred and 00/100 ---------- DOLLARS

CHEVY CHASE SAVINGS AND LOAN, INC.
CHEVY CHASE, MARYLAND 20815

FOR Used Equipment

==== SAMPLE =====

⑆255071981⑆ 0548

We've got one for you!

HOURS: MON & TUES 11 AM TO 9 PM
WED 11 TO 5 & BY APPOINTMENT

258·7373

SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-/CALL at a rate of 3¢ per word -- with a $1 minimum. Commercial vendors and nonsubscriber rate is 17¢ per word - with a $5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Estate sales for Widows Assistance handled by a FAR club will be published without cost. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

WIDOW'S ASSISTANCE PROGRAM
Estate of Issac Pickell, W3PPQ

* HEATH SB101 Transceiver $100
* HEATH SB610 Monitor Scope . . . $75
* HEATH HN31 Cantenna Dummy Load . . . $20
* HEATH RF Signal Generator . . . $15
* EICO 232 VTVM . . . . . $ 5
* HAMMARLUND HQ140x Rx Make Offer

Mrs. Florence Pickell. Note new number: (301) 493-8661, Bethesda, MD . . (FAR)

ESTATE SALE
Estate of Robert True - W3QD

Operator's Oak desk with raised shelf. 32" deep, 30" high, 51.5" wide. Has six drawers (1 extra deep for hanging folders.) Two slide-out writing shelves, raised shelf 51" wide, 13" high, 17" deep. Has RF-free lamp built into shelf. Call Tony Young, WA3YLO (301) 262-1917, Bowie, MD. (FAR)

ESTATE SALE
Estate of Louis Taich, W3IKX

* KENWOOD TS 930S with cw filter
  KENWOOD Automatic Antenna Tuner
  SW2000 SWR meter
  PC1A Phone patch
  Electro-Voice Model 664 mic.
  All for $999
* NATIONAL NCL 2000, KW Linear Amplifier, 80 thru 10 meters . $499
* CDE Ham IV rotator with control box $150
* TELREX Monarch TM 30B 6-element Tribander $195
* BENDIX sychro differential transmitter 31TDX6B 115V 50 Hz. Make an Offer.

Contact: Mrs. Louis Taich, (301) 239-7760, 3000 Hoffman Mill Road, Hampstead, MD 21074 (CHARS)

Need antenna or tower work done?
Call L. Chertok - W3GRF.
(301) 297-4888

ESTATE SALE
Estate of Rudy Wiliams, W3UBZ

* ICOM IC2KL Solid state linear amplifier $1000
* ICOM AT500 HF fully automatic antenna tuner $450
* ICOM IC55ID 50 MHz all-mode transeiver $550
* ASTRON RS20M regulated power supply $110
* ASTRON RS7A regulated power supply $100
* KENWOOD AT230 antenna tuner $155
* VANCO DC power supply $10
* AZDEN 10 meter FM Transceiver PCS280 . . . . . $180
* GONSET G-50 6-meter Communicator $70
* MIRAGE B108 2-meter 10-80 watt amplifier $135
* MIRAGE B1016 2-meter 150 watt amplifier $190

Will consider offers. Please call Bessie Williams (202) 882-7534 (01)

ESTATE SALE
Estate of Dick Lynn, AF4W

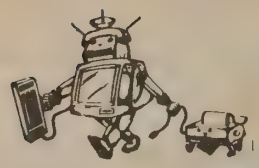
TEN-TEC HERCULES Amplifier #444 with Power Supply #445 . . . . . $950
FREQ.CTR. MAX.100 with Prescaler RF-221 . . . . . $100
CAP.MTR. CSC #3001 . . . . . $150
"WORDS-PER-MINUTE" Meter $75
COMPUTER PATCH, AEA CP-100 . . . . $200
KEYBOARD, MICROLOG AKB-1 . . . . . $200
All Prices OBO

Bill Miller - K4MM (703) 978-4020, Fairfax Station, VA 22039 (FAR-11)

FOR SALE: ALPHA Model 78 No-Tune 1.5 kW amplifier 1.8 - 30 MHz. Export panel $2400 Bob - W4JNN (703) 560-7161 or write 3505 Woodburn Rd, Annandale, VA (03)

NORM'S ROTOR SERVICE
Rebuilt Rotors, Parts & Service
Call Norm Jeweler - K3LYW
5263 Agro Drive
Frederick, MD 21701
(301) 874-5885

SHACK SALES



COMPUTER CORNER

FOR SALE: Commodore VIC-20 Computer. Includes 8K RAM Cartridge, Cassette Drive, 300 Baud Modem, VIC-1525 Graphic Printer, VIC-20 Cassette 6 Pack (Finance, Loan, Typewriter, Home Inventory & Expense Calendar), RS-232 Interface Board, VIC-1213 Machine Language Monitor Cortridge, Cardboard/3 Bus Expansion Board, Joystick, Terminal Emulation Software, Games, Programmers Reference Guide and documentation $100 Will trade for UHF/VHF SWR/Wattmeter or rig. Call Dave Parks - NW3U, Phone (301) 744-0959 in evenings, Catonsville, MD (02)

FOR SALE: Complete interface for RTTY and Morse code. Microlog AIR-1, VIC-20, and Datassette Unit . . . . . $120 Elmer - K4EUX (703) 979-1669 Arlington, VA (02)

FOR SALE: Radio Shack Model 100 Laptop Computer. Has 21K memory (up-gradable to 64K), printer cable, modem cable, AC adapter, manuals, hard and soft carrying cases. Perfect for portable PACKET operations. All for $260. Telephone Bill - WB2CPV (703) 250-5036 evenings. Falls Church, VA (0

FOR SALE: Linear amp. SB-200 . . . $250 Antenna tuner MFJ 949D . . . . . $60 Antenna tuner TMC with remote tuning unit, 50 Ω system . . . . . $100 Call Fred - KC4MOP (301) 567-9687 in evenings. Oxen Hill, MD (03)

FOR SALE: JOHNSON VIKING MATCHBOX Model 50-23-3 for 275 watt DC input Transmitter . . . . . $70 VERSA TUNER II Model MFJ-944 for 300 watt RF output Transmitter . . . . $28 Tom - W4KDU (301) 831-7972, POB 633 Mt. Airy, MD 21771 (02)

FOR SALE: DRAKE MN2000 2 kw tuner with manual and original box, in excellent condition . . . . . $150 ICOM IC-2AT 2-meter HT with battery charger, new condition . . . . . $155 Mike - WB8RDN, (703) 450-2304, Sterling, VA (02)

SLIDE RULES WANTED
Bob Hill, NK3W
200 Agnes Lane, Linthicum, MD
(301) 789-4772 21090-1702

Call JWO Services

Save on all
AMECO, ARRL, CALLBOOKS, GORDON WEST, Etc
Need books, code keys & oscillators
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(List $14) 1-9 $12.75 10-up $11.90
AMECO Technician License Manual
(List $5.95) 1-9 $5.50 10-up $5.35

JWO SERVICES

12 Hickory Place **Camp Hill, PA 17011**
(717-737-0850 **Mastercard/Visa**
Daily to 10 p.m. and weekend afternoons.
(C02)

YORK, PENNSYLVANIA SPRINGFEST
The Fourth Annual York Springfest (Ham/Computer) will be held Sunday, March 3, at the Dover Firehall. Food, refreshments, etc. Inside tables $10. Tailgating $1. General Admission $4. Unlicensed spouse and children under 12 free. VE Exams. Blacktop parking. General Admission 8:00 a.m. Talk-in on 146.37/97 and 147.93/33. Advance information and registration, call (301) 239-3978 or write: YORK SPRINGFEST, PO Box 316, New Freedom, PA 17349-0316. (03)

FOR SALE: KENWOOD TR-2600, 2-Meter, manual, soft case, shoulder strap, wall charger, belt hook . . . . . $240 New; YAESU FT-727R, Dual Band 2-Meter/70 cm, soft case, belt hook, wall charger, strap, FNB4A battery pack $375 KENWOOD TS-430-S, up-dn hand mic, manual . . . . . $600 KENWOOD PS 30 power supply . . . . $130 TURBER 254-C ceramic desk mic . . $25 Jim - N3EST (301) 823-6755 (02)

FOR SALE: Fifty foot windmill tower with Mosley TA33-40K triband beam and 40 meter dipole; HAM-M Rotator. You disassemble. . . . . Make Offer George Willingmyre - K3SZZ, (301) 421-1752 ,Silver Spring, MD, (02)

WANTED: COLLINS 32V, KWS-1, Consider other classy boat anchors, B&W, Millen gear, etc. Joe - N4WQC, (703) 683-2955, Alexandria, VA (02)

"RADIO INSTALLATIONS"
Clean - Neat - Professional
If you want it done right
Call us.
Herm - K2LEQ/3
(301) 952 1414
(C41)

SHACK SALES

WORLDRADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only $13 per year ($23 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest & Hamfest announcements, Aerials, Amateur Satellites, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Six Shots!, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to WORLDRADIO, 201 Lathrop Way, Ste. D, Sacramento, CA 95815. (Swp)

REMEMBER the FAMOUS BRATS Maryland
HAMFEST and COMPUTERFEST,
Sunday, July 28, 1991
at the Timonium Fairgrounds
Timonium (Baltimore) Maryland
(301) 583-9147 or write The BRATS
P.O. Box 5915; Baltimore, MD 21208

FOR SALE: PALOMAR loop amplifier with long wave and 160/80 meter loops $125
DRAKE R4C/T4XC/AC-4 with extra crystals, spare finals, manuals . . $350
ICOM R71A receiver with SSB/CW filters, FM board, manual $650
Call Allan - N4LUS (301) 229-7069 in evenings, Bethesda MD (02)

FOR SALE: Ham Paradise about 1 hour from D.C. area. Tower, beams, full basement with finished radio room. 3 or 4 bedroom, DR, LR, 2 full baths, kitchen, built in book cases, wood stove plus electric plus gas heat; basement office, shop area, storage room and laundry area. Also extra large two car detached garage. Underground utilities. 10 acres - no TVI! ALSO
The K4RZ (Honor Roll) fire lookout tower at 1800 feet, (walk up the steps - no climbing) will support about anything you can dream up! Now with 10-15-20 meter beams, prop pitch driven with RG-17 and hardline feeds. AC power on top along with intercom to house and garage. One hour 15 minutes to DC, 1 hour to Tysons, 45 minutes to Dulles, 5 min to Mt. Weather. Available early 1991 at $275,000. Call or write Frank Hoose, (703) 592-3891, Box 209 Bluemont, Virginia 22012 (03)

FOR SALE: Amplifier tubes - 3-500Z. Have 6. . . . . all for $50
Bob Weller, N6NE (703) 281-6339, Vienna, VA (02)

WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. As 1991 begins, please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, FAX (516) 674-9600 (02 Pd)

FOR SALE: MFJ Super Selector CW/SSB Filter, Model MFJ-721 . . . . . $20
GSP 10 amp power supply $40
Two famous "Entrepreneur Institute Reports. Cost $120, never used:
A) How to Make Money with a Microcomputer. B) Computer Consulting and Temporary Help Service $40
Four new snap-together choke cores to reduce RFI $12
All in excellent condition. Will trade for your HF or VHF rig, antenna tuner, power supply, in excellent condition. WA3AGP (301) 490-3308, Laurel, Md (02)

WANTED: AM filters for Galaxy R-530 and COLLINS 51S-1 receivers. Call Alan N4LUS (301) 229-7069 evenings, Bethesda, MD(02)

WANTED: Manual for WW-II Signal Corps Keyer - TG34A - 914Z - CZJ
115-230 Volt. Original or copy. Nick Smith - W3FNU (301) 598-9795
Silver Spring, MD (02)

Chevrolet
Chevrolet
Chevrolet
Chevrolet

N3GCV
DAVID J. HANBURY
New Trucks
Office: 949-2400
Home: 770-DAVE (8283)

Dick Stevens
10901 GEORGIA AVENUE
WHEATON MARYLAND 20902

SHACK SALES

FOR SALE:
MOTOROLA P-33 2-meter Transceiver, single channel (146.94) $15
TEKTRONIX Model 114 Pulse Generator, like new $50
New 75 OHM HARDLINE, several hundred feet. Use small toroid at each end to feed with 50 ohm transmitter and antennas. See ARRL Handbook. With new toroids $75
SCOPE - HITACHI V152B, like new. Dual channel DC-15 MHz 5 mV/Div. . $400
GENERATOR, ONAN 4CCK12R 4 KW 120/240 volt, 2 cylinder, long lasting cast iron, slow speed (1600 RPM) electric start, dual carburator for gas or LP. With 8 gallon gas tank and LP regulator. Excellent condition . . $900
ENCLOSED RELAY RACK for cw person. Contains one each - 20-Mtr, 15-Mtr, 10-Mtr kilowatt (EIMAC 4-250A) amplifiers. Fully metered. Plate, screen, bias, & filament supplies, variac power control.
The works for $200
TUBES - EIMAC, Tetrodes, 4-250A/5D 22 (KW), 4-125A/4D21 (400 watt), 4-65A (100 W) New & used . Make offer
NATIONAL 173/183 speakers (2) . . . @ $5
BEARCAT BC-III scanner with xtals for Loudoun, Clarke, Faquier Fire. Fairfax fire and other xtals are available. Includes boards for low band, high band, and UHF $75
SEARS ADDING MACHINE Model 8/9. Paper tape output with 4 rolls of tape. $20
All items in excellent condition
Frank Hoose - K4RZ, Phone (703) 592-3891, PO Box 209 Bluemont, VA 22012 (QTH located between Leesburg and Winchester) (03)

WANTED: Manual for WW-II Signal Corps Keyer - TG34A - 914Z - CZJ 115-230 Volt. Original or copy. Nick Smith - W3FNU (301) 598-9795 Silver Spring, MD (02)

Are you interested in 6-meter (50-54 MHz Activities? Join the Metropolitan Communications Network Radio Club, Nets: Saturday 7 p.m. on the club FM Repeater 53.250 out/52.250 in; Sunday 9 a.m. on 50.400 and 7 p.m. on upper side band 51.25. If you want more information call Bob, KI4M at (703) 533-0650 or see Auto-Call Index for club news column.

HELP! Is there a Kenwood TS-440S/AT (or comparable) HF transceiver out there for sale? Call Bob - WB4FCR (202) 667-4240, Washington, DC (03)

FOR SALE OR TRADE: Signal Generator, Test Equipment, Meters, Butternut Vertical, SSTV, RCA B&W TV, CDE Rotor, Balun, Electronic Organ, Hohner Melodica Piano with mouthpiece, Several small Cameras, and many other gidgets.
WANTED: ATV-200 or 902 MHz equipment or? Send your list of Wants and For Sales with Business SASE for list. Mail to Larry - W3MSN, 5108 Boulder Drive, Oxon Hill, MD 20745 (02)

FOR SALE: SANTEC ST-144 HT with mobile and wall charger, leather case with shoulder strap, speaker mike, needs new batteries $140
WANT HEIL BM5K Boom Mike, single headset for Kenwood and 1980 U.S. Callbook. Please leave message. Greg - KA3DBG (301) 946-6460, Rockville, MD (04)

FOR SALE: Complete set of QST for 1969, 70, 71, 72, 73, 77, 78, 80, 81, 86, 87, 88 & 89. $15 for all 13 years or $6.00 per year. Also have incomplete sets for 1968, 74, 75, 76, 79, 82, 83, 84, & 85. Have extra issues for some months in 72, 73 & 81 - 25¢ ALSO
RCA WR-50 RF Signal Generator - needs repair; Hewlett-Packard VTVM Model 410-B - needs probe repair or replacement; Heathkit VTVM Model IM-11 - believe OK. $10 for each unit or $25 for all three. In addition, want to sell five 110V AC motors, various HP. All run. $5.00 each or all five for $15. Call Ray Smith - N4MLC (703) 356-4442 for details. McLean, VA (02)

Become a part of one of the country's fastest-growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester, 249 Spring Gap South, Laurel, Maryland 20707. Phone (301) 725-4229 (SWP)

Attention Amateur Radio Newsletter Editors. AMATEUR RADIO NEWS SERVICE is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 60068 (SWP)

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703-430-5555

* Large inventory of used ham gear available..up to date & vintage!
* Professional service with modest rates and quick turnaround!
* Well stocked inventory of new rigs, station accessories and antenna needs!
* Collins equipment a specialty!
* Estate liquidations and sales welcomed!
* Customer satisfaction a priority!

Vintage Corner

Collins KWM-2's
Hallicrafters HT-37
Johnson KW match box
Johnson Pacemaker
B & W 51SB ssb gen
B & W L-1000A amp
Gonset GSB-201
National NCX-3
Eldico S / Line
Lafayette HA-350
Navy RBS-1 rcvr
Johnson Thunderbolt amp
Eldico S/Line
Ameco TX-62
ARC-5 Xmtrs & accs
Heathkit RX-1

Many other pieces too numerous to list!
Call store for more listings.

MONTHLY FEATURE

FEB 91

If you're in the market for a clean used rig..we have them!

Kenwood TS-130-S,..TS-180-S,..TS-530-S TS-680-S...TS-820-S,..TS-930-S. Accs also available. Yaesu FT-101,..FT-102 & accs etc. Other items to choose from. Call store for more information.

STORE HOURS:

Tue-Thur..10 - 6
Fri..12 - 9
Sat..9 - 6

Skypoint Ham Center is located on Route 846 or Sterling Park Blvd. Coming from Dulles on Route 28 north turn right on route 846. Out of Tysons take route 7 towards Leesburg and turn left on 846..Location is Holly Plaza Center. From Winchester and Leesburg take Route 7 to 846..

MasterCard
ACCEPTED
VISA

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes.

In determining space requirements, figure 80 12-pitch characters per line and 60 lines per page - including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 6¼" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address in not included in the ad, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a $1.00 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a $5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - $1.00 per column inch for non-commercial ads, $5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

Rates per Issue

Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	$75.00	$90.00	$100.00	$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
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